

**XVIII. Courses of Instruction**

**Faculty of Arts**

**Faculty of Education**

**Faculty of Environmental Studies**

**Faculty of Fine Arts**

**Faculty of Pure and Applied Science**

# Courses of Instruction

## African Studies – Arts

### Program Office:

314 Founders College, 416-736-5148, ext. 66939

### Coordinator of the Program:

P. Idahosa

### Members:

A. Baudot, Glendon/French; M.J. Blincow, Anthropology; H. Bouraoui, French Studies; J. Curto, History; J. Craig, History; N. DeShane, Fine Arts/Dance; Z. Ellis, French Studies; D.B. Freeman, Geography; S. Kanya-Forstner, History; P.E. Lovejoy, History; G. Mianda, Glendon/Women's Studies; E. Morera, Philosophy; M. Olaogun, English; J.S. Saul, Atkinson/Political Science; A. Sekyi-Otu, Social Science; P. Stamp, Social Science; R.B. Witmer, Fine Arts/Music.

Since its inception in 1974, the African Studies program has been an interdisciplinary program providing students with the opportunity to combine their interest in Africa with a proficiency in a given discipline such as Anthropology, English, Economics, French Studies, History, Political Science, Sociology and Women's Studies. Students can take either a double major in African Studies and one of these disciplines, or they can take a series of courses which complement their specialization in another subject area.

Students in the program usually take an interest not only in the broad range of thematic academic issues of the program, but also in the wider issues which have an impact upon Africa and its peoples. This interest is represented through a newsletter, events mounted by the program in conjunction with students, faculty and often the community and outside institutions. Because African Studies has a commitment to both the intrinsic benefits of academic inquiry and to the well being of the peoples of Africa, the program can therefore equip students seeking to do graduate work, work with African communities within Canada and work abroad.

York's African Studies program is designed to give graduates a broad theoretical framework and a set of highly-developed analytical skills. The career and employment opportunities for our graduates are potentially excellent, in view of society's growing awareness of the importance of international, gender and equity issues. Prospective employers welcome employees who are sensitive to international issues and comfortable with the emerging diversity of Canadian society. Alumni from our program have found work in a wide range of fields, including government, education, law, social work, public service, business and media. A degree in African Studies will offer you the challenge of personal and political insight, and it will encourage you to grow intellectually beyond the confines of traditional academic learning.

*Note: For the specific requirements of this program, please consult the Faculty of Arts "Programs of Study" section.*

## Departmental and Divisional Courses in African Studies

*Not all courses listed will be offered in any one year. A number of courses are offered on a rotating basis. Further, some regular courses qualify as a program course only when taught by an African specialist in the department. Majors should plan their course of studies with the advice of the coordinator to ensure they are able to take advantage of courses when they are offered. Please consult the annual supplementary calendar of the relevant department/division and that of the African Studies program (available in the spring from the Social Science division office, or from the coordinator) for details on all current courses and prerequisites. For African Studies courses at Glendon College and the Faculties of Atkinson and Fine Arts, students are subject to Faculty of Arts regulations governing out-of-Faculty courses.*

*Note: for purposes of meeting program requirements, all Foundations courses will count as six credits towards the major.*

AS/ANTH 3320 6.0 Religious Ritual and Symbolism.

AS/ANTH 3410 6.0 Ethnicity and Nationalism.

AS/ECON 3310 3.0 Development Economics I.

AS/ECON 3320 3.0 Development Economics II.

AS/EN 2371 6.0 Post-Colonial Literature: African Literature.

AS/EN 4210G 3.0 African Diasporic Dialogues: Imagining of Tradition.

ES/ENVS 4220 3.0 Urbanization in Developing Countries.

FA/FILM 3610 3.0 Studies in National Cinemas.

AS/GEOG 3090 3.0 The African Environment.

AS/GEOG 4370 3.0 The Geography of Third World Development.

AS/HIST 1000A 6.0 Evolution of Urban Black America.

AS/HIST 1010 6.0 War, Revolution and Society in the 20th Century.

AS/HIST 2750 6.0 African History, from 1800 to the present.

AS/HIST 3700 6.0 African, Caribbean and Latin American Connections: The Making of the South Atlantic World.

AS/HIST 4700 6.0 The Partition of Africa.

AS/HIST 4770 6.0 The African Urban Past.

AS/HUMA 1300 9.0 Cultures of Resistance in the Americas: The African American Experience.

AS/PHIL 3130 3.0 Philosophical Issues around Race and Ethnicity.

AS/PHIL 3180 3.0 Conversations with African Philosophy.

AS/POLS 3560 6.0 Politics of the Third World.

AS/POLS 3570 3.0 Africa: Politics of Continental Crisis.

AS/SOSC 2480 9.0 Introduction to African Studies.

AS/SOSC 2810B 6.0 Literature, Art and Society: Social Thought in African and Caribbean Literature.

AS/SOSC 3480 6.0 Culture, Democracy and Development in Africa.

AS/SOSC 4090 6.0 Directed Reading.

*Prerequisite: Permission of the Social Science division.*

AS/SOSC 4990N 6.0 African Popular Culture.

GL/SOCI 3610 3.0 Sociologie de l'Afrique Noire.

AS/AK/GL/WMST 3524 3.0 Colonialism, Gender and Societies in Black Africa.

AS/AK/GL/WMST 3524 3.0 Colonialisme, genre sociétés en Afrique noire.

## Anthropology – Arts

### Department Office:

2054 Vari Hall, 416-736-5261

### Chair of the Department:

W.K. Little

### Distinguished Research Professor Emeritus:

P.H. Gulliver

### Professors:

J. Nagata, M. Rodman, M. Silverman, P. Van Esterik

### Professors Emeriti:

P. Harries-Jones, F. Henry, E. Kallen, J.R. Rayfield, S. Romalis

### Associate Professors:

N. Adelson, M. Blincow, G.L. Gold, E. Graham, W. Kenneth Little, D.P. Lumsden, G. Thaiss, D. Yon [Jt. with Fac. of Education]

### Assistant Professors:

S. Gururani, A. Schrauwers, D. Winland

The Department of Anthropology concentrates its attention and resources in the area of change in the contemporary world, especially as we move toward new social challenges at the beginning of this century. Our courses deal with how people live their lives at the unpredictable edges of political, social and cultural stability. As anthropologists, we are interested in exploring with you how people are subjected to, participate in and contest the processes of living in a world that is now interconnected by new and powerful economic, cultural and technological forces. Thus, we have courses that engage a range of issues: diasporic communities and displaced peoples such as refugees; contemporary problems in health and nutrition; the role that gender, religion, science and popular cultures play in the construction of everyday social life; and a critical analysis of evolution, ecology and environmental movements. Other courses focus on processes of change in the pre-historic and historic past and examine the rise of tropical urbanism, the colonial process and the ways people invent themselves through the use of the past. Within these varying subject matters we ask questions about how class, race, gender and ethnic identity politics are produced and expressed in shifting local and global contexts of power. Rather than saying that anthropology simply reflects on the world, we also try to show you how it is actually immersed in the changing state of things. The program focuses on both the uses and challenges of theories and methods of the cultural, historical and social sciences to produce a unique anthropological understanding

of the processes of pre-historical, historical and contemporary change. The hope is that such courses will prepare you to ask critical questions about the possibility of all expressions of contemporary and future social life.

## Courses in Anthropology

*For specific requirements of programs in anthropology, please consult the Faculty of Arts "Programs of Study" section. Not all courses will necessarily be offered in any given year; consult the department's supplementary calendar for details of courses to be offered.*

**AS/ANTH 1110 6.0 Introduction to Social Anthropology.** An introduction to anthropology from the perspectives acquired through comparative study of primitive and complex societies. The course illustrates both the diversity and the recurring principles of social behaviour. Topics include economic organization, kinship patterns, political and legal systems, and ritual and religion.

**AS/ANTH 2000 3.0 Selected Topics in Social Anthropology.** Information concerning Anthropology's annual selected topic course offerings is available in the department's supplemental calendar.

**AS/ANTH 2010 6.0 Selected Topics in Social Anthropology.** Information concerning Anthropology's annual selected topic course offerings is available in the department's supplemental calendar.

**AS/ANTH 2100 6.0 One World, Many Peoples.** A fundamental change in recent history has been the formation of an increasingly interdependent world amidst widespread diversity of societies and cultures. This course surveys the possibilities and problems of implementing programs of social, economic and cultural development within this context.

**AS/ANTH 2110 6.0 Issues in Social Anthropology.** How do anthropologists explain the various issues current in the discipline? The course focuses on explanations of such topics as symbolic versus materialist approaches, the rationality of peasant economic action and the formalist-substantivist debate.

*Prerequisite: AS/ANTH 1110 6.0.*

**AS/ANTH 2140 6.0 Introduction to Archaeology and Paleoanthropology.** How did the human species originate? How did human society and culture develop? This course introduces students to archaeological and paleoanthropological methods for studying human antiquity. They will also survey the prehistory of humankind's biological, social and cultural evolution.

**AS/ANTH 2150 6.0 Early Civilizations: Cities, Urbanism and Early States.** This is a survey of the archaeology and historical anthropology of early complex societies in the old world (such as the peoples and cultures of Egypt, Mesopotamia, Iran and China) and in the New World (such as the Aztecs, Maya and Inca).

**AS/ANTH 2160 6.0 Native Peoples of North America.** An examination of the origins and diversity of Canadian Indian culture types prior to and during the historical period of contact (First term). A discussion and analysis of legal, political, economic and cultural issues during the later years of Euro-Canadian influence (Second term).

**AS/ANTH 2180 3.0 Social Anthropology of the Middle East.** Despite the many sociocultural differences in the Middle East, there is, nevertheless, a sense of "unity in diversity." Using anthropological concepts, such similarities and differences in religion, politics, the family, urban, rural and tribal life, and modernization are explored.

**AS/ANTH 2190 3.0 Social Anthropology of the Caribbean.** The course gives students an understanding of Caribbean society and culture in light of anthropological research, problems and theoretical constructs. The main focus is on the English-speaking Caribbean, concentrating on: the Colonial Past; the Institutional Present; and the Future.

**AS/ANTH 3000 3.0 Selected Topics in Social Anthropology.** Information concerning Anthropology's annual selected topics course offering is available in the department's supplemental calendar.

**AS/ANTH 3010 6.0 Selected Topics in Social Anthropology.** Information concerning Anthropology's annual selected topics course offering is available in the department's supplemental calendar.

**AS/ANTH 3020 6.0 Race, "Racism" and Popular Culture.** This course concentrates on race and racism as a major source of conflict, particularly in Canadian, British and American societies. The theoretical literature on racism as well as applied models developed to reduce racial conflict will be studied in depth.

**AS/ANTH 3080 6.0 Modes of Enablement: A Cultural Perspective on Physical Disability.** A comparative look at visible and non-visible disabilities, the relationship between the disabled and others. Topics include the symbolic and behavioural correlates of physical disability, relationships between the disabled, their support persons and the health professionals.

*Degree credit exclusion: AS/ANTH 3000G 3.0.*

**AS/ANTH 3090 6.0 Gender, Science and Society.** This course focuses on a critical study of the biomedical sciences, especially the role of women in science, interpretations of their social and reproductive roles and an assessment of major concepts in the representation of gender and visible minorities in medicine.

**AS/ANTH 3110 6.0 Acquiring Research Skills.** This introduction to research focuses on learning both qualitative and quantitative research skills within the context of a project designed and implemented by the class.

Fieldwork, survey design and data analysis are covered, all within the context of using a computer.

*Prerequisites: AS/ANTH 1110 6.0 and AS/ANTH 2110 6.0.*

**AS/ANTH 3120 6.0 Anthropology of Tourism.** This course explores the sites/sights of tourist practice. Beginning with an historical analysis of tourism in relationship to European colonial expansion, we then consider the cultural significance of contemporary tourism both at home and abroad.

*Degree credit exclusion: AS/ANTH 3010B 6.0.*

**AS/ANTH 3140 6.0 Archaeological Research Techniques: York University – MTRCA Summer Archaeological Field School.** The course introduces students to basic methods of archaeological field work and laboratory analysis through the excavation of a Late Iroquoian site in Ontario. Students integrate the data derived from their investigations with what is known about the culture and history of the people under study.

*Prerequisite: Any one of AS/ANTH 2140 6.0; AS/ANTH 2150 6.0; or AS/ANTH 2160 6.0.*

**AS/ANTH 3150 6.0 Culture, Evolution and Ecology.** The course begins with a discussion of Darwinian evolution and moves on to consider how global ecology alters these conventional views. Ideas about the interlinkage between evolution and ecology and aspects of the new naturalistic approach is discussed.

**AS/ANTH 3160 6.0 Family and Kinship in Comparative Perspective.** This course seeks to develop cross-cultural perspectives on such topics as marriage and mating, the formation of domestic groups, extended kinship ties and social networks, the kindred and various forms of descent groups, the family as a "pathway to madness" and many other topics. The stress is on the importance of kinship as an ideology and set of symbols for ordering human relationships.

**AS/ANTH 3170 6.0 Historical Anthropology and Politics of History.** This course examines: (a) how and why anthropologists have incorporated history into their ethnographic work and (b) the ways in which the past is perceived and used, both by anthropologists and the people amongst whom they study.

*Degree credit exclusion: AS/ANTH 3000P 3.0.*

**AS/ANTH 3180 6.0 Human Evolution and Physical Anthropology.** An introduction to physical anthropology within the perspective of evolutionary theory. Topics include: the modern evolutionary synthesis; the primate fossil record; human physical evolution: ethnology and the evolution of behaviour; human biology in respect to adaptation and natural selection.

**AS/ANTH 3190 6.0 Nutritional Anthropology: Food and Eating in Cross-cultural Perspective.** This course introduces students to nutritional anthropology. It uses a biocultural model, linking biological, social and cultural determinants of food use. The course stresses linkages between food and health, and application of anthropological field methods to examining food-related problems.

**AS/ANTH 3200 3.0 Millenarian and Utopian Religious Movements.** This is an anthropological, as opposed to a theological, approach to religion, attempting to show how new religious ideas develop and are articulated and disseminated in specific social situations. It examines the social support groups, patterns of organization, types of leadership and "followship," and suggests the conditions under which these emerge.

**AS/ANTH 3230 6.0 Women, Culture and Society.** This course examines the contribution of anthropology to women's studies. We discuss the relationship between biology and culture, the evolution and learning of sex roles, and the roles and status of women in comparative perspective.

**AS/ANTH 3250 3.0 China and the Chinese Diaspora.** This course focuses on selected issues in the culture, economics, politics and international role of today's China, as well as on the identity and experiences of the overseas Chinese (e.g. as in Canada and the Caribbean), to address anthropological theorizing of "diasporas".

*Degree credit exclusion: AS/ANTH 3000M 3.0.*

**AS/ANTH 3280 6.0 Psychiatric Anthropology and Social Stress.** This course is concerned with furthering the mutual relevance of social anthropology and psychiatry, and with developing a true "anthropology of suffering." It integrates theories and findings from the fields of medical anthropology, transcultural psychiatry, psychosomatic medicine, in its focus on psychosocial stress research.

**AS/ANTH 3320 6.0 Religious Ritual and Symbolism.** Religious systems are examined in cross-cultural perspective. Emphasis is placed on the religious, ritualistic and moral aspects of behaviour in preliterate and modern societies. Attention also focuses on the cosmologies which give meaning to these categories of behaviour.

**AS/ANTH 3330 6.0 Health and Illness in Cross-Cultural Perspective.** Comparative perspectives on health, illness and medical systems are studied from the viewpoint of anthropology and related disciplines. Emphasis is placed on understanding the roles of the practitioner and patient in their social and cultural contexts and the importance of applied medical anthropology to the wider community.

**AS/ANTH 3350 3.0/3350 6.0 Culture as Performance: The Anthropology of the Arts.** This course covers expressive aspects of culture: ritual, drama, the visual arts, dance and oral literature, in the framework of contemporary anthropological theories.

**AS/ANTH 3360 6.0 The Politics of Power: Sexuality, Violence and Property in Everyday Life.** This course focuses on the interconnections among three key sites of the everyday politics of power — sexuality (the body), violence and property — in a wide variety of different societies and cultures.

*Degree credit exclusion: AS/ANTH 3010A 6.0.*

**AS/ANTH 3410 6.0 Ethnicity and Nationalism.** This course examines the significance and perception of ethnicity and of class, both as concepts and as modes of establishing or of manipulating identity and of organizing social life in non-Western societies.

**AS/ANTH 3450 3.0 Negotiations and Bargaining.** To explore processes by which people negotiate resolution of disputes (rather than seeking adjudication), theories are examined from anthropology and other social sciences with reference to Western and non-Western societies. Students participate in four simulations of real-life cases.

**AS/ANTH 4000 6.0 Independent Research.** The advanced student has the opportunity to do independent research under the supervision of a faculty adviser chosen by the student. The research must be written in the form of a final major essay. Specific details have to be worked out with the supervisor.

**AS/ANTH 4010 3.0/4010 6.0 Directed Reading.** A full-year (or half-year in either term) reading course may be taken by prior arrangement with an instructor. A copy of the agreed-upon requirements must be submitted to the department Chair.

*Note: please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

**AS/ANTH 4020 3.0 Human Rights in Canada: Key Issues.** Using International Human Rights concepts as a framework for analysis, the course analyses key issues in Human Rights in Canada: 1) discrimination; 2) rights in conflict (pornography, hate propaganda); and 3) minority rights issues. Strategies for change designed to strengthen protection for the human rights of all Canadians are considered.

**AS/ANTH 4030 6.0 Intercultural Training Skills.** The purpose of this course is to offer students a body of theoretical knowledge and a repertoire of tools and skills that can be applied to training in intercultural communication, anti-racism, educational and employment equity and organizational development.

*Degree credit exclusion: AS/ANTH 4200A 6.0.*

**AS/ANTH 4040 6.0 Organizational Culture and Symbolism.** Problem-based learning is applied to the anthropology of organizations focusing on concepts such as culture, symbolism, metaphors, rituals, ceremonies and spectacles, myths and stories and the embedding of local cultural worlds in larger impersonal systems of political economy.

*Note: Use of the Internet is required for this course.*

**AS/ANTH 4110 6.0 Development of Theory in Social Anthropology.** Starting from the major scholars of the last century, the course of anthropology is critically traced through the present century, with the ultimate aim of assessing the contemporary condition of social anthropology.

*Prerequisites: AS/ANTH 1110 6.0, AS/ANTH 2110 6.0 and AS/ANTH 3110 6.0.*

*Degree credit exclusion: AS/ANTH 4360 6.0.*

**AS/ANTH 4140 6.0 Field Techniques in Maya Archaeology and Cultural Resource Management.** Basic archaeological techniques are expanded to include the excavation, mapping and recording of complex architecture within the context of examining the course of ancient Maya urbanism.

**AS/ANTH 4180 3.0 Mayan Mesoamerica.** Mayan Mesoamerica explores Mesoamerican urban tradition and its roots. New data from archaeology and dynastic histories permit a detailed focus on Maya florescence. This is followed by an examination of short- and long-term cultural and environmental consequences of the Spanish Conquest.

**AS/ANTH 4200 6.0 Selected Topics in Social Anthropology.** Information concerning Anthropology's annual selected topics course offering is available in the department's supplemental calendar.

**AS/ANTH 4210 3.0 Selected Topics in Social Anthropology.** Information concerning Anthropology's annual selected topics course offering is available in the department's supplemental calendar.

**AS/ANTH 4230 3.0 Place and Space: Cross-Cultural Approaches.** Virtually, every aspect of human activity involves ways in which space and place are conceptualized, used and shaped. This course examines the socio-cultural construction of places from anthropological and interdisciplinary perspectives, emphasizing student writing and participation in seminar discussion.

*Degree credit exclusion: AS/ANTH 4210M 3.0.*

**AS/ANTH 4260 6.0 Social and Cultural Change.** Critical considerations of the theoretical dimensions in this field of anthropology (concepts, models, methodologies, explanations) leads to study of the causes, processes and effects of social change in a range of developed and Third World societies. Particular and contrasting case studies are examined in detail.

**AS/ANTH 4280 3.0 Health and Healing in Asia.** This Medical Anthropology seminar analyzes the epidemiology and processing of physical or mental disease and illness, and examines the popular, folk and professional sectors of selected Asian health care systems, focusing on East Asia and on theoretical and policy implications.

**AS/ANTH 4340 6.0 Advocacy and Social Movements.** This course examines how modern forms of communication have totally transformed the nature of advocacy and the social construction of knowledge in modern society. Specifically, it examines ways in which cultural norms are modified by the activities of social movements.

## Applied Mathematics – Arts, Pure and Applied Science

See *Mathematics and Statistics*.

## Norman Bethune College – Pure and Applied Science, Arts, Environmental Studies

### Academic Program Office:

205 Norman Bethune, 416-736-5164 ext. 22035

### Director of Student Development:

J. Libman  
216 Norman Bethune, 416-736-2100 ext. 33940

## Science Courses

**SC/BC 1800 3.0 First-Year University Seminar in Science.** Each seminar course is a small-group (25-student) in-depth exploration of a topic of current scientific interest, led by a faculty member actively interested in the area. The aim is to introduce students to university scholarship in science. One and one-half hours per week for two terms. Three credits.

*Prerequisite:* Open only to students in their first year of university studies in Science or by permission of the instructor.

**SC/BC 1850 6.0 Biomedical Ethics and the New Genetics.** Recent developments in genetics and biotechnology are rapidly generating both medical breakthroughs and societal dilemmas. This course provides an understanding of basic principles of molecular biology and human genetics, and examines societal and bioethical implications of the new genetics. Three lecture/seminar hours. Two terms. Six credits.

*Cross-listed to:* SC/NATS 1850 6.0.

*Degree credit exclusions:* SC/NATS 1680 6.0, SC/NATS 1800J 6.0A, SC/NATS 1800J 6.0B, SC/NATS 1850 6.0. Not open to students enrolled in Biology programs.

**SC/BC 3030 3.0 Technical and Professional Writing.** This writing-intensive course is for upper-year Science students and others in related fields. Students develop confidence and competence in professional and technical writing. Focus is on communication of complex information in a clear, sensible style. Three hours per week. One term. Three credits.

*Prerequisite:* At least 6 non-science general education credits.

*Corequisite:* Concurrent enrolment in at least one 3000- or 4000-level Science course (or course which is cross-listed with a Science course), or permission of the instructor.

*Degree credit exclusions:* SC/BC 3050 3.0, AS/SC/COSC 3530 3.0.

## Faculty of Arts Foundations Courses

Listed below are the 1000- and 2000-level nine-credit Foundations courses which are part of the Faculty of Arts General Education requirement and are affiliated with Norman Bethune College. These courses introduce students to interdisciplinary study, emphasize critical thinking, reading and writing skills at the university level, and reflect the academic mandate of the college.

**AS/HUMA 1905 9.0 Dangerous Visions, Brave New Worlds: The Science Fiction Culture and our Scientific Age.** This course explores how the medium of science fiction has given cultural expression to changing attitudes towards modern science and technology. Topics include science fiction and the computer, relativity and quantum theory, religious belief, genetics and potential apocalypses.

**AS/HUMA 1910 9.0 Science and the Humanities: Nature and Human Nature.** This course investigates how scientific thinking about the place of human beings in nature involves humanistic thinking about the place of nature in being human.

*Degree credit exclusion:* AS/HUMA 1910 6.0.

**AS/HUMA 2915 9.0 Darwin, Einstein and the Humanities.** An intensive examination of how Darwin and Einstein's scientific thought both shaped and was shaped by their respective intellectual, cultural and social context.

**AS/HUMA 2920 9.0 Spreading the Word: Knowledge, Technology and Culture.** This course explores technologies of knowledge in social and cultural context, examining histories of classification, ethical and political concerns about information, debates over artificial intelligence and artificial life, and the social impact of technologies like the book, telegraph and computer.

**AS/SOSC 2040 9.0 Nature and Human Nature.** An enquiry into the biological dimensions of human culture with emphasis on findings of evolutionary theory, zoology and

primate studies in order to understand the evolutionary determinants of "primitive" and "modern" societies.

*Degree credit exclusion:* AS/SOSC 1040 6.0.

## Biology – Pure and Applied Science

### Department Office:

247 Farquharson, 416-736-5243

### Undergraduate Office:

108 Farquharson, 416-736- 5311

### Chair of the Department:

A.J. Hilliker

### Undergraduate Coordinator:

P.J. Wilson

### University Professor:

A.S.M. Saleuddin

### Distinguished Research Professor:

D. Regan

### Distinguished Research Professors Emeriti:

K.G. Davey, P.B. Moens

### Professors:

M.B. Coukell, M.B. Fenton, A. Forer, I.B. Heath, J.A.M. Heddle, A.J. Hilliker, L.E. Licht, D.M. Logan, B.G. Loughton, D.J. McQueen, L.D.M. Packer, R.E. Pearlman, J. Sapp, J.S. Shore, C.G.H. Steel, R.A. Webb, H. Wilson

### Professors Emeriti:

M.G. Boyer, B. Colman, D.M. Nicholls

### Associate Professors:

D.R. Bazely, A. Bédard, M.M. Crerar, D.R. Goring, R.R. Lew, C. Peng, B.J. Stutchbury, K.A. White, N. Yan

### Associate Professors Emeriti:

D.M. Cameron, J.G. Little, J.S. Tait

### Assistant Professors:

I. Coe, L. Donaldson, G. Sweeney

### Associate Lecturers:

E.C. Gardonio, P.J. Wilson

Biology is the science of life. It is concerned with structure, function, evolution and distribution of all living organisms. The Department of Biology is sufficiently large and its faculty members sufficiently varied in research interests to offer undergraduate instruction in all the major areas of biology. It specializes, however, in four areas: physiology, cell biology, molecular biology and population biology. Specialized programs in biology (Science section V) require completion of a prescribed core of courses which expose the student to general areas of biology, but also give the student wide flexibility in selecting courses.

## Courses in Biology

Biology courses whose numbers begin with the digit "4" are normally offered in alternate years - with the exception of SC/BIOL 4000 3.0/4000 8.0, SC/BIOL 4040 3.0, SC/BIOL 4200 3.0, SC/BIOL 4290 4.0, SC/BIOL 4245 3.0, SC/BIOL 4255 3.0 and SC/BIOL 4370 3.0, which have been offered annually in recent years.

The contact hour information in the course outlines below specifies the number of hours per week when the course is taught in the

daytime in a Fall/Winter Session. If the course is offered in the evening and/or in a Summer Session, the format and scheduling may be different, though equivalent in credit value.

**SC/BIOL 1010 6.0 Biological Science.** A course for Biology students examining unifying concepts and fundamental principles of biology. The course offers an introduction to cell and molecular biology, genetics, ecology and evolution. The laboratory exercises are an integral component; therefore, students must pass the laboratory section in order to pass the course. Three lecture hours, two lecture hours per week in alternate weeks; one tutorial hour per week; 12 three-hour laboratories. Two terms. Six credits.

*Prerequisite:* OAC Chemistry or SC/CHEM 1500 4.0.

*Degree credit exclusions:* SC/BIOL 1020 6.0, SC/BIOL 1410 6.0, AK/NATS 1910 6.0.

**SC/BIOL 1410 6.0 Principles and Processes in Biology.** Emphasizing fundamental biological principles and processes of both plants and animals, this course examines aspects of the evolution and diversity of life, cell structure and function, heredity and ecosystems. For science students who do not plan to continue in Biology. Because laboratory exercises are an integral component of the course, students must pass the laboratory section of the course in order to pass the course. Three lecture hours, two lecture hours per week in alternate weeks; one tutorial hour per week; 12 three-hour laboratories. Two terms. Six credits.

*Prerequisite:* OAC Chemistry or SC/CHEM 1500 4.0.

*Degree credit exclusions:* SC/BIOL 1010 6.0, SC/BIOL 1020 6.0, AK/NATS 1910 6.0.

**SC/BIOL 2010 4.0 Plant Biology.** Current advances in plant biology research, highlighting plant structure, physiology, development and diversity. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite:* SC/BIOL 1010 6.0.

*Degree credit exclusion:* AK/BIOL 2010 8.0.

**SC/BIOL 2020 4.0 Cell Biology and Biochemistry I.** A study of the cell biology and biochemistry of biomolecules. Topics include intermediary metabolism related to bioenergetics, including the biology of mitochondria and chloroplasts, protein structure and function, nucleic acid replication, gene expression, chromosome organization and recombinant DNA technology. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisites:* SC/BIOL 1010 6.0; both SC/CHEM 1000 3.0 and SC/CHEM 1001 3.0, or SC/CHEM 1000 6.0.

*Corequisite:* SC/CHEM 2020 6.0 or SC/CHEM 2020 5.0.

*Degree credit exclusions:* SC/BIOL 2020 8.0, AK/BIOL 2020 4.0.

**SC/BIOL 2021 4.0 Cell Biology and Biochemistry II.** A study of those aspects of cell biology and biochemistry not included in SC/BIOL 2020 4.0. Topics include membranes, the endomembrane system, the cytoskeleton, cellular motility, the extracellular matrix, intercellular communication and intracellular regulation. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite:* SC/BIOL 2020 4.0.

*Degree credit exclusions:* SC/BIOL 2020 8.0, AK/BIOL 2030 4.0.

**SC/BIOL 2030 4.0 Animals.** (formerly SC/BIOL 2030 5.0 — before 2000-2001) A study of the diversity of animals, their structure, physiology and evolution. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite:* SC/BIOL 1010 6.0.

*Degree credit exclusions:* SC/BIOL 2030 5.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0, AK/BIOL 2010 8.0.

**SC/BIOL 2031 3.0 Animals.** (formerly SC/BIOL 2031 4.0 — before 2000-2001) A lecture study of the diversity of animals, their structure, physiology and evolution. (Same as the lecture part of SC/BIOL 2030 4.0.) Three lecture hours. One term. Three credits.

*Prerequisite:* SC/BIOL 1010 6.0.

*Degree credit exclusions:* SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, AK/BIOL 2010 8.0.

**SC/BIOL 2040 4.0 Genetics.** (formerly SC/BIOL 2040 5.0 — before 2000-2001) A study of the organization and behaviour of genes and chromosomes and their roles in cells, organisms, populations and evolution. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite:* SC/BIOL 1010 6.0.

*Degree credit exclusion:* SC/BIOL 2040 5.0.

**SC/BIOL 2050 4.0 Ecology.** (formerly SC/BIOL 2050 3.0 — before 2000-2001) A study of the interactions between organisms and their abiotic environments, presented in an evolutionary context. Includes processes of evolution, ecosystems and communities, competition, predation, population ecology and current environmental problems such as habitat loss and extinction. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite:* SC/BIOL 1010 6.0.

*Prerequisite or corequisite:* SC/BIOL 2060 3.0.

*Degree credit exclusion:* SC/BIOL 2050 3.0.

**SC/BIOL 2060 3.0 Biometrics.** (formerly SC/BIOL 3090 3.0 — before 2000-2001) Problems of experimental design encountered in biological and physical research; basic statistical theory using non-parametric as well as parametric approaches. The project period is devoted to the solving of statistical problems with the use of computers. Two lecture hours, one project period. One term. Three credits.

*Prerequisites:* AK/AS/SC/COSC 1520 3.0 or AK/AS/SC/COSC 1530 3.0 or AK/AS/SC/COSC 1540 3.0; AS/SC/MATH 1014 3.0 or AS/SC/MATH 1505 6.0 or both AS/SC/MATH 1013 3.0 and AS/SC/MATH 1025 3.0 or equivalents.

*Degree credit exclusions:* AK/BIOL 3080 6.0, AK/BIOL 3080 3.0, SC/BIOL 3090 3.0, AK/BIOL 3090 3.0, AS/ECON 2500 3.0, AS/ECON 3210 3.0, AK/ECON 3470 3.0, AK/ECON 3480 3.0, AS/ECON 3500 3.0, ES/ENVS 2010 6.0, ES/ENVS 2010 3.0, AS/SC/GEOG 2420 3.0, AS/SC/KINE 2050 3.0, AS/SC/KINE 3150 3.0, AS/SC/AK/MATH 1131 3.0, AS/SC/MATH 1132 3.0, AK/MATH 2430 6.0, AS/SC/AK/MATH 2560 3.0, AS/SC/AK/MATH 2570 3.0, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0, AS/SC/PSYC 2022 3.0, AS/SOCI 3030 6.0.

**SC/BIOL 3001 2.0/3001 3.0 Field Course.** A course given at one of several biological stations, the objective of which is to give the student the opportunity to study plants and animals in their natural surroundings. The departmental brochure should be consulted for further details. Two-week field course. Three credits (3001 3.0). One-week field course. Two credits (3001 2.0).

*Prerequisites:* SC/BIOL 1010 4.0; one of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0; plus special prerequisites where specified for some modules.

*Note:* Students must be manually enrolled in this course through the Biology Department early in the January prior to the session in which the course is offered. Enrolment is not possible at any other time of year. In addition to the tuition fee levied by the University, each student must pay for transportation, room and board.

**SC/BIOL 3002 2.0/3002 3.0 Field Course.** This is a second field course, which may be taken for credit, the contents of which must differ materially from SC/BIOL 3001 2.0/3001 3.0 as determined by the course director. The departmental brochure should be consulted for further details. Two-week field course. Three credits (3002 3.0). One-week field course. Two credits (3002 2.0).

*Prerequisite:* SC/BIOL 3001 2.0 or SC/BIOL 3001 3.0 or permission of the course director; plus special prerequisites where specified for some modules.

*Note:* Students must be manually enrolled in this course through the Biology Department early in the January prior to the session in which the course is offered. Enrolment is not possible at any other time of year. In addition to the tuition fee levied by the University, each student must pay for transportation, room and board.

**SC/BIOL 3003 2.0/3003 3.0 Field Course.** This is a third field course, which may be taken for credit, the contents of which must differ materially from SC/BIOL 3001 2.0/3001 3.0 and SC/BIOL 3002 2.0/3002 3.0, as determined by the course director. The departmental brochure should be consulted for further details. Two-week field course. Three credits (3003 3.0). One-week field course. Two credits (3003 2.0).

*Prerequisite:* SC/BIOL 3002 2.0 or SC/BIOL 3002 3.0 or permission of the course director; plus special prerequisites where specified for some modules.

*Note: Students must be manually enrolled in this course through the Biology Department early in the January prior to the session in which the course is offered. Enrolment is not possible at any other time of year. In addition to the tuition fee levied by the University, each student must pay for transportation, room and board.*

**SC/BIOL 3010 3.0 Advanced Biochemistry.** A detailed discussion of enzyme structure and function. The chemistry and metabolism of biological molecules. Metabolic regulation at the level of enzyme activity. Knowledge of general concepts of metabolism and of basic aspects of enzyme structure and function is assumed. Three lecture hours. One term. Three credits.

*Cross-listed to: SC/CHEM 3050 3.0.*

*Prerequisites: SC/BIOL 2020 4.0; SC/CHEM 2020 6.0 or SC/CHEM 2020 5.0.*

*Prerequisite or corequisite: 3 additional Chemistry credits at the 2000 or 3000 level (e.g. SC/CHEM 2011 3.0) are strongly recommended.*

*Degree credit exclusion: SC/CHEM 3050 3.0.*

**SC/BIOL 3030 4.0 Physiology of the Invertebrates.** A treatment of the physiology of major invertebrate phyla with emphasis on interphyletic relationships. Laboratory exercises address the diversity and physiology of invertebrates. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite: SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0.*

**SC/BIOL 3060 4.0 Animal Physiology I.** Fundamental concepts in sensory, neural and behavioural physiology. The biochemical mechanisms whereby nerve cells detect and transmit information and the processes whereby information is integrated in the nervous system and gives rise to the outputs of behaviour. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite: SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0; both SC/BIOL 2020 4.0 and SC/BIOL 2021 4.0 strongly recommended as prerequisite(s) or corequisite.*

**SC/BIOL 3070 4.0 Animal Physiology II.** The processes of digestion, osmoregulation and excretion, circulatory systems and gaseous exchange, metabolism, growth and reproduction are considered. The course adopts a comparative approach, first analyzing the basic principles underlying physiological activities, then examining the means whereby different organisms perform them. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite: SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0; both SC/BIOL 2020 4.0 and SC/BIOL 2021 4.0 strongly recommended.*

**SC/BIOL 3100 2.0 Current Topics in Biological Research.** A review of the research in progress by members of the Department of Biology. This course is designed to prepare Honours students for SC/BIOL 4000 8.0 and SC/BIOL 4000 3.0. Two lecture hours per week in the Fall Term, assignments due in the Winter Term. Two credits.

*Prerequisite: Open only to students registered in an Honours program in Biology, normally in the year prior to that in which they will undertake their Honours Thesis work.*

**SC/BIOL 3110 3.0 Molecular Biology I: Nucleic Acid Metabolism.** Discussion of the metabolism of DNA and RNA, including the physical-chemical properties of nucleic acids; DNA-protein interactions; chromosome structure; nucleic acid replication, repair and recombination; recombinant DNA technology. Three lecture hours. One term. Three credits.

*Prerequisites: SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0.*

**SC/BIOL 3120 3.0 Immunobiology.** The biology and chemistry of the immune response. Structure and function of antibodies; antibody diversity; anatomy and development of the immune system; cellular interactions; immunological responses in disease. Production and use of monoclonal and polyclonal antibodies. Three lecture hours. One term. Three credits.

*Prerequisites: SC/BIOL 2020 4.0; SC/BIOL 2021 4.0.*

**SC/BIOL 3130 3.0 Molecular Biology II: Regulation of Gene Expression.** Gene structure and function. Mechanisms of gene expression in prokaryotes and eukaryotes. Storage and retrieval of genetic information; transcription, translation and their control. Three lecture hours. One term. Three credits.

*Prerequisite: SC/BIOL 3110 3.0.*

**SC/BIOL 3140 4.0 Advanced Biochemistry and Molecular Genetics Laboratory.** Research techniques used in biochemistry and molecular biology, including recombinant DNA technology, are illustrated. Purification of a restriction endonuclease; isolation and mapping of bacterial plasmids, bacteriophage and recombinant molecules; PCR (polymerase chain reaction); nucleic acid hybridization. Enrolment restricted to 12 students. One lecture hour, six laboratory hours one day per week, plus additional laboratory hours throughout the week. One term. Four credits.

*Prerequisite or corequisite: SC/BIOL 3110 3.0. SC/BIOL 3130 3.0 strongly recommended as a prerequisite or corequisite.*

**SC/BIOL 3150 3.0 Microbiology.** Fundamentals of microbiology; microbial organisms; microbe-host interactions; viruses and viral infections; microorganisms and human disease; environmental and applied microbiology. Three lecture hours. One term. Three credits.

*Prerequisites: SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0.*

**SC/BIOL 3160 4.0 Plant Physiology.** Basic physiological processes of plants and plant cells, including photosynthesis, respiration, nitrogen metabolism, water relations, solute uptake and translocation. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisites: SC/BIOL 2010 4.0; SC/BIOL 2020 4.0; SC/BIOL 2021 4.0.*

**SC/BIOL 3170 3.0 Concepts in Animal Ecology.** Current major topics in ecology with special emphasis on animals. Lecture material is based on primary sources and includes population growth, productivity, predation and optimization, community ecology and conservation. The laboratory material stresses field studies and quantitative approaches to related questions. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisites: One of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0; SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0; AK/AS/SC/COSC 1520 3.0 or AK/AS/SC/COSC 1530 3.0 or AK/AS/SC/COSC 1540 3.0.*

*Prerequisite or corequisite: SC/BIOL 2060 3.0 or SC/BIOL 3090 3.0.*

**SC/BIOL 3200 3.0 Processes of Evolution.** The process and principles of evolution, the mechanisms by which genetic change occurs, the patterns of genetic variation and molecular studies that relate the structure of organisms to their evolution are examined. Three lecture hours. One term. Three credits.

*Prerequisite: SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0.*

**SC/BIOL 3500 3.0 Plant Geography.** An analysis of the geography of higher plants, emphasizing processes that operate at the species population level, the origin and diversity of higher plant life, geographic patterns of diversity and floras, and dynamics of species populations at local and continental scales. Two lecture hours, two laboratory hours. One term. Three credits.

*Cross-listed to: AS/SC/GEOG 3500 3.0.*

*Prerequisite: SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0 or AS/SC/GEOG 2500 3.0 or permission of the instructor.*

*Degree credit exclusion: AS/SC/GEOG 3500 3.0.*

**SC/BIOL 4000 3.0/4000 8.0 Honours Thesis.** A substantial review essay based on library investigations (4000 3.0) or research thesis based on laboratory and/or field investigations (4000 8.0) under the supervision of a faculty member. Rules governing this course are outlined in the Department of Biology undergraduate handbook. Two terms. Eight credits (4000 8.0). One term. Three credits (4000 3.0).

*Prerequisites: Normally, students take SC/BIOL 3100 2.0 as a prerequisite for SC/BIOL 4000 3.0 and SC/BIOL 4000 8.0. In exceptional circumstances, SC/BIOL 3100 2.0 may be taken as a corequisite with the permission of the course director. Open only to students in the final year of the Specialized Honours program in Biology or, in exceptional circumstances, by permission of the department.*

**SC/BIOL 4020 3.0 Mycology.** A study of the fungi, emphasizing their diversity, physiology and biology and their interactions with human

affairs. Some field collecting, identification and culture work are required. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisite:* SC/BIOL 2010 4.0.

**SC/BIOL 4040 3.0 Genetic Stability and Change.** Stability and flexibility of the genomes of prokaryotic and eukaryotic cells. Genetic recombination, DNA repair, mutation inductions; genome rearrangement and the transposition of DNA. The roles of these processes in evolution and in the induction of human disease. Three lecture hours. One term. Three credits.

*Prerequisite:* SC/BIOL 3110 3.0; SC/BIOL 3130 3.0 strongly recommended as prerequisite or corequisite.

**SC/BIOL 4050 3.0 Plant Development.** Physiological processes controlling the growth, differentiation and reproduction of plants. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2010 4.0; SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; or by permission of the course director.

**SC/BIOL 4061 3.0 Cell and Molecular Biology of Development.** This course presents a genetic and molecular biological approach to the field of developmental biology. Topics range from unicellular systems, both prokaryotic and eukaryotic, to more complex, multicellular systems. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0.

**SC/BIOL 4070 3.0 Behavioural Ecology.** Interactions between the behaviour and ecology of animals are discussed from several points of view, including feeding, use of space, mate selection, mother-young interactions, social behaviour, learning and communication. Laboratories include techniques for studying behaviour and seminars reviewing recent research. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisite:* One of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0.

**SC/BIOL 4080 3.0 Methods in Aquatic Ecology.** Lake morphometry; water movement; temperature effects; water chemistry; freshwater flora and fauna; productivity. The laboratory deals with the taxonomy of freshwater organisms, the use of limnological equipment and the practical aspects of energy flow. Six hours per week (including lectures, laboratories and field experience). Two weekend field trips. One term. Three credits.

*Prerequisites:* SC/BIOL 2010 4.0; one of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0; SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0; SC/BIOL 2060 3.0 or SC/BIOL 3090 3.0; AK/AS/SC/COSC 1520 3.0 or AK/AS/SC/COSC 1530 3.0 or AK/AS/SC/COSC 1540 3.0.

*Note: An additional fee will be charged for room and board while at the field site.*

**SC/BIOL 4090 4.0 Plant Ecology.** This course reflects the diversity of topics that make up the field of plant ecology: ecosystems, plant population ecology, physiological and evolutionary ecology, plant-herbivore interactions and applied ecology. Laboratories cover field and laboratory techniques, including sampling methods. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisites:* SC/BIOL 2010 4.0; SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0.

**SC/BIOL 4095 3.0 Applied Plant Ecology.** This course concentrates on how pollution, including acid precipitation and climatic change, and activities such as overgrazing have affected plant growth and productivity. Three lecture hours. One term. Three credits.

*Prerequisite:* SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0 or permission of the instructor; SC/BIOL 4090 4.0 is recommended.

**SC/BIOL 4100 3.0 Natural History.** A study of the life histories of selected flora and fauna in major ecosystems, with special emphasis on local species and interrelationships within ecosystems. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2010 4.0; SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0; SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0.

**SC/BIOL 4110 4.0 Eukaryotic Genetics.** The relationship between chromosomal structure and function, with emphasis on eukaryotic, especially human, genetics. The laboratory is designed to teach mammalian cell culture and cytogenetic techniques. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0.

**SC/BIOL 4120 3.0 Phycology.** Classification and phylogeny of the algae; life cycles and reproduction; some aspects of algal physiology. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisite:* SC/BIOL 2010 4.0.

**SC/BIOL 4130 3.0 Plant Evolution.** An analysis of patterns of variation among plants, emphasizing the evolutionary processes which brought them about. Topics include biosystematics, speciation, hybridization, isolating mechanisms and mating systems. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2010 4.0; SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0.

**SC/BIOL 4140 3.0/4140 4.0 Advanced Cell Biology I.** Selected topics in cell biology, such as the principles of microscopy, cell motility. Restricted laboratory enrolment.

Three lecture hours, three laboratory hours. One term. Four credits (4140 4.0). Three lecture hours. One term. Three credits (4140 3.0).

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0.

**SC/BIOL 4150 3.0 Cellular Regulation.** A detailed examination of molecular, cellular and physiological processes associated with the action of peptide hormones, neuro-transmitters and growth factors. Emphasis is on cell receptors and signal transduction mechanisms involving cyclic nucleotides and calcium. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; SC/BIOL 3010 3.0 and SC/BIOL 3110 3.0 strongly recommended as prerequisites or corequisites.

**SC/BIOL 4151 3.0 Membrane Transport.** The fundamental properties of solute transport are presented by discussing active ion pumps, passive transporters and ion channels of bacteria, plants and animals. The role of transport in regulating the intracellular environment in animals and plants is emphasized. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; SC/BIOL 3010 3.0 and SC/BIOL 3110 3.0 strongly recommended as prerequisites or corequisites.

**SC/BIOL 4160 3.0 Photosynthesis.** A study of the process of photosynthesis at the biochemical, organelle and whole-organism levels, including structure of the photosynthetic apparatus, primary light-harvesting processes, electron transport, photophosphorylation, mechanism of carbon dioxide fixation in higher plants and algae, photorespiration. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisite:* SC/BIOL 3160 4.0.

**SC/BIOL 4170 2.0/4170 3.0/4170 4.0 Special Topics.** Half courses on special topics not ordinarily included in other courses in Biology. One term. Four, three or two credits.

**SC/BIOL 4190 3.0/4190 4.0 Advanced Cell Biology II.** A discussion course emphasizing the relationships between ultrastructure, function and development, especially processes involving the cytoskeleton. Restricted laboratory enrolment. Three lecture hours, three laboratory hours. One term. Four credits (4190 4.0). Three lecture hours. One term. Three credits (4190 3.0).

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0.

**SC/BIOL 4200 3.0 Selected Readings in Biology.** A reading course offered by special arrangement between an individual student and a faculty supervisor which focuses on a specialized area of biology of mutual interest. The subject matter must be significantly different from that of the student's honours thesis. A student may take this course only once for credit. One term. Three credits.

*Prerequisite:* Students can be in any program in Biology, but must have a Science grade point average equal to or greater than 6.0.



**SC/BIOL 4220 4.0 Histology.** Structure and function of tissues in vertebrates, with special emphasis on human histology. The laboratory deals with basic histological and histochemical techniques, such as tissue sectioning and staining, and localization of enzymes. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0.

**SC/BIOL 4230 4.0 General Entomology.** The distinguishing characteristics, biology and economic importance of the major orders and families of insects. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite:* SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0.

**SC/BIOL 4240 4.0 Mammalian Systematics and Ecology (Mammalogy).** The systematics, life history and ecology of mammals. Emphasis is on North American genera and the species of eastern Canada. Field and laboratory techniques are an integral part of the course. Three lecture hours and three laboratory hours per week, one required weekend field trip. One term. Four credits.

*Prerequisites:* SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0; SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0.

**SC/BIOL 4245 3.0 Conservation Biology.** This course explores the role of biological science in efforts to conserve natural resources, systems and the organisms therein. Two lecture hours, three laboratory hours. One term. Three credits.

*Cross-listed to:* ES/ENVS 4110 3.0.

*Prerequisites:* SC/BIOL 2010 4.0; one of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0; SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0; SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0; or permission of the instructor.

*Degree credit exclusion:* ES/ENVS 4110 3.0.

**SC/BIOL 4250 3.0 Ornithology.** A review of the adaptations of birds, including flight, physiology, behaviour and ecology, and their taxonomic diversity and evolution. Laboratories include field trips, a study of bird anatomy and examination of museum specimens. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisite:* One of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0.

**SC/BIOL 4255 3.0 Biodiversity.** We do not know the number of species on Earth, even to the nearest order of magnitude. This course discusses the factors that influence the number of species in an area and the importance of biodiversity to humanity. Two lecture hours, three laboratory hours. One term. Three credits.

*Cross-listed to:* ES/ENVS 4111 3.0.

*Prerequisite:* Completion of 60 credits towards a degree in Biology or Environmental Science or Environmental Studies, or permission of the instructor.

*Degree credit exclusion:* ES/ENVS 4111 3.0.

**SC/BIOL 4260 3.0 Systematic Biology in Theory and Practice.** Systematics is the science of describing and categorizing biological diversity at all levels. It is central to most areas of biological inquiry. This course teaches students the history of systematics, its methods and their applications throughout biology. Two lecture hours, one three-hour laboratory/computer session. One term. Three credits.

*Prerequisites:* SC/BIOL 2010 4.0; one of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0.

**SC/BIOL 4265 3.0 Pollutants, Invaders and Global Change.** This course summarizes our progress in conceptualizing, understanding and in solving large-scale ecological problems caused by the introduction of pollutants and exotic species to the environment. Three lecture hours. One term. Three credits.

*Prerequisites:* One of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0; either SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0 or permission of the instructor.

**SC/BIOL 4270 3.0 Reproduction.**

Molecular, genetic, cytological and evolutionary aspects of sexual reproduction. Comparison of the regulatory genes and proteins of sexual differentiation in *Saccharomyces*, *Drosophila*, *Caenorhabditis elegans*, mice, human and plants. Evolutionary advantages and disadvantages of sexual reproduction; asexual reproduction through parthenogenic mechanisms. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0.

**SC/BIOL 4280 3.0 Plant Molecular Biology.**

This course covers the uses of genetically engineered plants in basic research and industry. Emphasis is placed on methods for isolating higher plant genes and elucidating regulatory mechanisms. The agronomic potential of plant genetic engineering is discussed. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/BIOL 3110 3.0; SC/BIOL 3160 4.0.

**SC/BIOL 4285 3.0 Human Molecular Genetics.**

The course covers the application of genetic and molecular biological techniques to study human diseases and other related areas, and discusses ethical concerns that might arise from this research. Three lecture hours. One term. Three credits.

*Prerequisite or corequisite:* SC/BIOL 3130 3.0.

**SC/BIOL 4290 4.0 Biotechnology.** This laboratory course covers some of the methods currently in use in biotechnology research in industry and academia. Emphasis is placed on methods for transforming eukaryotes with marker genes. Advanced methods used in molecular biology are also covered. Two lecture hours, six laboratory hours. One term. Four credits.

*Prerequisite:* SC/BIOL 3110 3.0.

*Degree credit exclusion:* SC/BIOL 4290 3.0.

**SC/BIOL 4300 3.0 Origins and Development of Biological Theories.** An analysis of some central ideas in the philosophy of science. The origins and expansion of biological theories, with emphasis on Darwinism, the gene concept, "the new synthesis", and the reinterpretation of these theories in molecular biological terms. Three lecture hours. One term. Three credits.

*Prerequisite:* Open only to students in the final year of an Honours program in Biology or with permission of the instructor.

*Degree credit exclusion:* SC/BIOL 4170Q 3.0.

**SC/BIOL 4305 3.0 Controversies in the Modern Life Sciences.** (formerly SC/BIOL 4170Q 3.0 — before 1999-2000) The study of past and contemporary controversies in genetics, evolutionary theory and ecology. The focus is on analyzing the diverse aims, concepts, theories, techniques, and institutional strategies which have shaped the development of modern biology. Three lecture hours. One term. Three credits.

*Prerequisite:* SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0.

*Prerequisite or corequisite:* SC/BIOL 3200 3.0.

*Degree credit exclusion:* SC/BIOL 4170Q 3.0.

**SC/BIOL 4310 3.0 Biological Timekeeping.**

An examination of the biological rhythms of cells, tissues and whole animals; the mechanisms of biological timekeeping and how those "clocks" interact with each other to coordinate physiological events within an animal and with the environment. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; one of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0.

**SC/BIOL 4320 3.0 Vertebrate Endocrinology.**

Vertebrate endocrine structure and function; synthesis and regulation of hormones; mechanisms of hormone actions; and hormonal integration of physiological processes. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; one of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0.

*Degree credit exclusion:* AS/SC/KINE 4448 3.0.

**SC/BIOL 4330 3.0 Invertebrate Endocrinology.**

An examination of the hormonal control of processes in selected invertebrates, particularly those involved in the control of postembryonic development. Three lecture hours. One term. Three credits.

*Prerequisite:* SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0.

**SC/BIOL 4340 3.0 Fish Biology.**

A study of fish biology (ichthyology), including anatomy, systematics, physiology, behaviour and ecology of freshwater and marine fishes.

Special emphasis is placed on the unique features of fishes and their functional adaptation to aquatic environments. Three lecture hours. One term. Three credits.

*Prerequisite:* SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0.

**SC/BIOL 4350 4.0 Comparative Chordate Anatomy.** A comparative study of the biology of chordate animals in which the evidence of their evolutionary relationships is emphasized. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite:* SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0.

**SC/BIOL 4360 4.0 Parasitology.** (formerly SC/BIOL 4360 3.0 — before 1999-2000) Biology of animal parasites; developmental, structural and functional adaptations to the parasitic environments; immune and other responses of hosts; parasitic diseases. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite:* SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0.

*Degree credit exclusion:* SC/BIOL 4360 3.0.

**SC/BIOL 4370 3.0 Neurobiology.** An analysis of recent advances in neurobiology, particularly information processing and storage in nervous systems and the biochemical basis of learning, memory and behaviour. The neurobiology of addiction, diseases of the nervous system and regeneration are also discussed. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; SC/BIOL 3060 4.0.

**SC/BIOL 4380 3.0 Systems Neuroscience.** This course investigates the neural basis of visual and auditory perception, echolocation, smell, short- and long-term memory, and motor control. Emphasis is on understanding how neural interactions analyze sensory information and control complex behaviour. Three lecture hours. One term. Three credits.

*Prerequisite:* SC/BIOL 3060 4.0.

**SC/BIOL 4400 3.0 Behavioural Genetics.** Differences in behaviour are analyzed through evolutionary and mechanistic approaches. Hypotheses, models, experimental and field data are used to address the importance of heredity and environment in the development of individual differences, social systems, communication, habitat and sexual selection. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0; SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0; SC/BIOL 2060 3.0 or SC/BIOL 3090 3.0.

**SC/BIOL 4410 3.0 Advanced *Drosophila* Genetics.** A study of recent advances in *Drosophila* genetics. The course addresses techniques such as chromosomal analysis, lethal tagging, genetic dissection, mosaic analysis, genetic screens, transposon tagging,

enhancer trapping, methods for manipulating genes in transgenic flies and genetic ablation. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0.

**SC/BIOL 4420 3.0 Herpetology.** A detailed presentation of the biology of amphibians and reptiles (herpetology) is given. Topics include taxonomy, reproduction, feeding, defence, environmental physiology of living forms. Special emphasis is placed on identification and life history of Canadian herpetofauna. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisites:* SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0; SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0.

**SC/BIOL 4450 4.0 Animal Development.** Fertilization, cleavage, differentiation and development in selected animals. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisites:* SC/BIOL 2020 4.0; SC/BIOL 2021 4.0; SC/BIOL 2030 5.0 or SC/BIOL 2030 4.0; SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0.

**SC/BIOL 4510 3.0 Cellular and Molecular Basis of Muscle Physiology.** Topics include muscle development, muscle-specific gene expression, molecular basis of muscle contraction, biochemical plasticity of muscle, sarcolemmal and nuclear signal transduction in muscle. Three lecture hours. One term. Three credits.

*Cross-listed to:* AS/SC/KINE 4510 3.0.

*Prerequisite(s):* Both SC/BIOL 2020 4.0 and SC/BIOL 2021 4.0, or AS/SC/KINE 3011 3.0.

*Degree credit exclusions:* AS/SC/KINE 4510 3.0, AS/SC/PHED 4510 3.0.

## Business-Oriented Programs

### Coordinated Programs in Business, Public Policy and Administrative Studies

Students interested in administration or business may delay their choice of program until the end of their first year by declaring the Coordinated program in Business, Public Policy and Administration. For more information regarding the Coordinated programs in Business, Public Policy and Administrative Studies, please refer to the Faculty of Arts "Programs of Study" section in this Calendar.

## Business and Society – Arts

### Program Office:

Division of Social Science, S751 Ross  
416-736-5054

### Web Address:

[www.yorku.ca/sosci/programs/bands.html](http://www.yorku.ca/sosci/programs/bands.html)

### Coordinator:

D. Reed, S740 Ross 416-736-5054

The Business and Society (BUSO) program is a liberal arts degree program that provides students with the tools needed to study and research the relationship between business and society. The Honours BA and BA degree programs in Business and Society represent innovative multidisciplinary degree programs that provide students with the opportunity to study the relationship between business and society in a variety of new forms. The core courses, which include a second-year Foundations course (AS/SOSC 2340 9.0) will provide students with basic analytical tools to study business and society. In addition to the core, both Honours BA and BA students will choose two of the eight following streams to focus their studies in: Economics, Environmental Studies, History, Mathematics, Political Science, Psychology, Sociology and Social Science (Labour Studies).

Some students in the BUSO program and in other degree programs may also wish to pursue basic courses in business skills in order to prepare for employment. Faculty of Arts students interested in enhancing their business related skills are eligible to enrol in any of the professional certificates offered by the Faculties of Atkinson and Arts, e.g. Certificate in Business Fundamentals or the Certificate in Non-profit Management. These certificates provide an additional avenue for Faculty of Arts students to develop business related skills.

## Departmental and Divisional Courses in Business and Society

For specific program requirements please refer to the Faculty of Arts "Programs of Study" section in this Calendar. Course descriptions for the courses listed below are contained in the appropriate departmental and divisional listings in the Courses of Instruction section of this Calendar.

### Program Core

AK/ADMS 1000 3.0 Introduction to Administrative Studies.

AS/COSC 1520 3.0 Introduction to Computer Use I.

AS/ECON 1000 3.0 Introduction to Microeconomics.

AS/ECON 1010 3.0 Introduction to Macroeconomics.

AS/MATH 1581 3.0 Business Mathematics I.

AS/POLS 1090 3.0 Introduction to Business, Government and Society.

AS/SOSC 2340 9.0 Foundations of Business and Society.

\*AS/SOSC 4040 6.0 Issues in Business and Society.

\*Required for the Honours BA program in Business in Society

### Economics Stream

AS/ECON 2500 3.0 Introductory Statistics for Economists.

AS/ECON 3210 3.0 Use of Economic Data.

AS/ECON 3140 3.0 Monetary Economics.

AS/ECON 3150 3.0 International Trade I.

AS/ECON 3580 3.0 Introductory Financial Accounting for Economists.  
AS/ECON 3590 3.0 Introductory Managerial Accounting for Economists.  
AS/ECON 4400 3.0 Corporate Finance I.  
AS/ECON 4410 3.0 Corporate Finance II.  
AS/ECON 4500 3.0 Canadian Business Law I.  
AS/ECON 4510 3.0 Canadian Business Law II.

### Environmental Studies Stream

EN/ENVS 1000 6.0 Approaches to Environmental Studies.  
EN/ENVS 2000 3.0 Paradigms in Environmental Studies.  
EN/ENVS 2100 3.0 Foundations of Nature, Technology and Society.  
EN/ENVS 2400 3.0 Foundations of Environmental Policy and Action.  
EN/ENVS 3120 3.0 Environmental History.  
EN/ENVS 3130 3.0 Energy and the Environment.  
EN/ENVS 3410 3.0 Environmental Policy I.  
EN/ENVS 3420 3.0 Environmental Law.  
EN/ENVS 3430 3.0 Environmental Assessment.  
EN/ENVS 3440 3.0 Resource Management.  
EN/ENVS 3510 3.0 Environmental Economics I.  
EN/ENVS 4120 3.0 Natural History.  
EN/ENVS 4140 3.0 Environmental Thought.  
EN/ENVS 4410 3.0 Environmental Policy II.  
EN/ENVS 4430 3.0 Impact Assessment Process and Practice.  
EN/ENVS 4442 3.0 Environmental Monitoring and Auditing.  
EN/ENVS 4510 3.0 Environmental Economics II.  
EN/ENVS 4530 3.0 Risk Assessment in Resource Management.

### History Stream

AS/HIST 1010 6.0 War, Revolution and Society in the 20th Century.  
AS/HIST 1020 6.0 The Emergence of the Nation-State: The Quest for National Identity in Europe and North America.  
AS/HIST 1030 6.0 Imperialism and Nationalism in Modern Asia.  
AS/HIST 1050 6.0 Ordinary People in a Changing World: Europe and North America, 1700 – 1914.  
AS/HIST 2220 6.0 Medieval and Early Modern Europe.  
AS/HIST 2300 6.0 Modern Europe.  
AS/HIST 2400 6.0 British History.  
AS/HIST 2500 6.0 Canadian History.  
AS/HIST 2600 6.0 United States History.  
AS/HIST 2710 6.0 East Asia: Tradition and Defiance.  
AS/HIST 2720 6.0 Modern Latin America, 1810 to the present.  
AS/HIST 3211 3.0 Economic Development of Preindustrial Europe.  
AS/HIST 3212 3.0 Society in Preindustrial Europe.  
AS/HIST 3560 3.0 Canadian Economic Development to 1870.  
AS/HIST 3561 3.0 Canadian Economic Development, 1870 to 1985.  
AS/HIST 3660 3.0 US Economic and Business History to 1880.  
AS/HIST 3670 3.0 US Business History Since 1880: The Origins and Consequences of Managerial Capitalism.  
AS/HIST 3700 6.0 African, Caribbean and Latin American Connections: The Making of the South Atlantic World.

AS/HIST 3820 3.0 Welfare States in Comparative Perspective  
AS/HIST 4240 6.0 Human Economy and Natural Environment in Preindustrial Europe.  
AS/HIST 4260 6.0 Topics in Early Modern European Social and Cultural History.  
AS/HIST 4440 6.0 Land and Power in Early Modern England.  
AS/HIST 4450 6.0 Themes in 18th-Century British Social History.  
AS/HIST 4511 6.0 20th-Century Canadian Social History.  
AS/HIST 4610 6.0 Political Power in American Society.  
AS/HIST 4660 6.0 The American Revolution: Origins and Aftermath.  
AS/HIST 4690 6.0 Race and Politics in America Since WW II.  
AS/HIST 4700 6.0 The Partition of Africa.  
AS/HIST 4720 6.0 Post-Emancipation Societies in the Americas.  
AS/HIST 4750 6.0 Backwardness and Revolution in Latin America.

### Mathematics and Statistic Stream

#### Option A: Operations Research

AS/MATH 1550 6.0 Mathematics with Management Applications.  
AS/MATH 2221 3.0 Linear Algebra with Applications I.  
AS/MATH 2560 3.0 Elementary Statistics I.  
AS/MATH 3170 6.0 Operations Research I.  
AS/MATH 4570 6.0 Applied Optimization.

#### Option B: Statistics

AS/MATH 1550 6.0 Mathematics with Management Applications.  
AS/MATH 2560 3.0 Elementary Statistics I.  
AS/MATH 2570 3.0 Elementary Statistics II.  
AS/MATH 3034 3.0 Applied Categorical Data Analysis.  
AS/MATH 3330 3.0 Regression Analysis.  
AS/MATH 3430 3.0 Sample Survey Design.  
AS/MATH 4730 3.0 Experimental Design  
AS/MATH 4930 3.0 Time Series and Spectral Analysis.

### Political Science Stream

AS/POLS 1000 6.0 Introduction to Politics: Exploring the Democratic Experience.  
AS/POLS 2100 6.0 Introduction to Canadian Government and Politics.  
AS/POLS 2610 6.0 Public Policy and Administration.  
AS/POLS 3110 3.0 The Process of Urban Politics I: Issues, Institutions and Ideology.  
AS/POLS 3115 3.0 Process of Urban Politics II: Structure, Agency and Urban Change.  
AS/POLS 3140 3.0 Political Economy of Labour in Canada.  
AS/POLS 3145 3.0 Government and Business in Canada.  
AS/POLS 3165 6.0 Problems in Canadian Business Law.  
AS/POLS 3190 6.0 Public Administration.  
AS/POLS 3270 3.0 Global Political Economy I: Theory and Approaches.  
AS/POLS 3275 3.0 Global Political Economy II: Issues and Problems Since 1945.  
AS/POLS 3300 6.0/AS/SOSC 3030 6.0 Statistics for Social Sciences.

AS/POLS 3600 3.0 Public Law I: The Constitution and the Courts in Canada.  
AS/POLS 3605 3.0 Public Law II: The Charter of Rights and Freedoms and the Limits of Public Administration.  
AS/POLS 4110 6.0 Canadian Urban Policy.  
AS/POLS 4114 3.0 Topics in Canadian State Finance: The National vs. the Global Political Economy.  
AS/POLS 4115 6.0 The Political Economy of State Finance.  
AS/POLS 4125 3.0 Women and Current Policy Issues.  
AS/POLS 4175 6.0 Canadian Federalism in Comparative Perspective.  
AS/POLS 4290 3.0 Topics in International Political Economy.  
AS/POLS 4295 3.0 Political Economy of Global Finance.  
AS/POLS 4600 3.0 Politics and the Judicial Process in Canada.  
AS/POLS 4605 3.0 Ethical Politics.  
AS/POLS 4620 3.0 Health Policy in Canada.  
AS/POLS 4625 3.0 Issues in Canadian Health Policy.  
AS/POLS 4650 3.0 Provincial and Municipal Government in Ontario.

### Psychology Stream

AS/PSYC 1010 6.0 Introduction to Psychology.  
AS/PSYC 2020 6.0 Analysis of Psychological Data.  
AS/PSYC 2021 3.0 Introduction to Descriptive Statistics.  
AS/PSYC 2022 3.0 Introduction to Inferential Statistics and the Analysis of Variance.  
AS/PSYC 2120 3.0 Social Psychology.  
AS/PSYC 2130 3.0 Personality.  
AS/PSYC 2230 3.0 Motivation.  
AS/PSYC 3140 3.0 Abnormal Psychology.  
AS/PSYC 3430 3.0 Behaviour in Groups: Small Group Processes.  
AS/PSYC 3450 3.0 Environmental Psychology.  
AS/PSYC 3570 3.0 Organizational Psychology.  
AS/PSYC 4020 6.0 Advanced Seminar in Social Psychology.  
AS/PSYC 4030 6.0 Behaviour Modification and Behaviour Therapy.  
AS/PSYC 4060 6.0 Psychology of Counselling.

### Social Science (Labour Studies) Stream

AS/ECON 3240 3.0 Labour Economics – Theory.  
AS/ECON 3250 3.0 Labour Economics – Institutions.  
AS/SOSC 2210 9.0 Labour Relations in Canada.  
AS/SOSC 3130 6.0/AS/W MST 3510 6.0 Women and Work: Production and Reproduction.  
AS/SOSC 3210 6.0 Working Class in Canadian Society.  
AS/SOSC 3240 3.0 Labour and Globalisation I: North American Perspectives.  
AS/SOSC 3241 3.0 Labour and Globalisation II: Comparative Perspectives.  
AS/SOSC 3380 6.0 Law, Labour and the State.  
AS/SOSC 3990Q 6.0 Unions, Workers and Democracy

AS/SOSC 4210 6.0 Collective Bargaining Simulation.  
AS/SOSC 4240 6.0 Labour Studies Placement.  
AS/SOSC 4250 6.0 Special Topics in Labour Studies.

### Sociology Stream

AS/SOCI 1010 6.0 Sociological Perspectives.  
AS/SOCI 2070 6.0 Social Order and Social Organization.  
AS/SOCI 3030 6.0/AS/POLS 3300 6.0 Statistics for Social Sciences.  
AS/SOCI 3620 6.0 Formal Organizations.  
AS/SOCI 3600 3.0 The Sociology of Work and Industry.  
AS/SOCI 3610 3.0 The Sociology of Occupations and Professions.  
AS/SOCI 4120 6.0 Social Organization and Urban Culture.  
AS/SOCI 4200 6.0 The Sociology of Conflict and Cooperation.  
AS/SOCI 4210 6.0 Economic Sociology.  
AS/SOCI 4300 3.0 Sociology of Health Care Delivery.  
AS/SOCI 4450 6.0 Women in Development.

## Certificate in Business Fundamentals

### Certificate Office:

Faculty of Arts, Advising Centre, S319 Ross  
416-736-5022

The Certificate in Business Fundamentals provides students, and particularly those in one of the Faculty of Arts business related programs, with the opportunity to complete a concentration of courses related to the business management disciplines. This concentration: a) assists students who wish to pursue a career in the private sector, and b) provides an introduction to business management skills for students who are considering the pursuit of an MBA degree. York University students may earn a Certificate in Business Fundamentals in addition to fulfilling the requirements for an undergraduate degree. This Certificate is open to students in all undergraduate faculties except for students enrolled in the Schulich School of Business Bachelor of Business Administration program or the Atkinson Bachelor of Administrative Studies program. Students may not earn both a Certificate in Business Fundamentals and a Certificate in Non-profit Management.

For Certificate requirements please refer to the Faculty of Arts "Programs of Study" section in this Calendar.

## Departmental and Divisional Course Listings required for the Certificate in Business Fundamentals

Course descriptions for the courses listed below are contained in the appropriate departmental and divisional listings in the Courses of Instruction section of this Calendar.

AS/ECON 1000 3.0 Introduction to Microeconomics.  
AS/ECON 1010 3.0 Introduction to Macroeconomics.  
AS/ECON 2300 3.0 Intermediate Microeconomic Theory I.  
AS/ECON 2350 3.0 Intermediate Microeconomic Theory II.  
AS/ECON 2400 3.0 Intermediate Macroeconomic Theory I.  
AS/ECON 2450 3.0 Intermediate Macroeconomic Theory II.  
AS/ECON 2500 3.0 Introductory Statistics for Economists.  
AS/MATH 1300 3.0 Differential Calculus with Applications.  
AS/MATH 1530 3.0 Introductory Mathematics for Economists I.  
AS/MATH 1550 6.0 Mathematics with Management Applications.  
AS/MATH 2560 3.0 Elementary Statistics I.  
AS/MATH 2580 3.0 Mathematics of Investment and Actuarial Science.  
AS/PHIL 2070 3.0 Introductory Ethics.  
AS/PHIL 2075 3.0 Introduction to Applied Ethics.  
AS/POLS 2100 6.0 Introduction to Canadian Government and Politics.  
AS/POLS 2610 6.0 Public Policy and Administration.  
AS/POLS 3300 6.0/AS/SOCI 3030 6.0 Statistics for Social Sciences.  
AS/PSYC 2020 6.0 Analysis of Psychological Data.  
AS/PSYC 2021 3.0 Introduction to Descriptive Statistics.  
AS/SOCI 3030 6.0/AS/POLS 3300 6.0 Statistics for Social Sciences.  
AS/SOSC 2210 9.0 Labour Relations in Canada  
AS/SOSC 2340 9.0 Foundations of Business and Society

Listed below are required courses for the Business Fundamentals Certificate mounted by the Schulich School of Business.

**SB/BFND 3100 3.0 Management and Business: An Introduction.** This course will provide an intensive introduction to the nature and role of business organizations. The role of business organizations in the political economy of Canada will be described. Management functions including planning, decision making and control will be examined, and the major specialized management roles (operations management, finance and accounting, marketing/sales, human resources) will be introduced.

**SB/BFND 3200 3.0 Finance and Accounting.** Managers in business (as in all formal organizations) need to interpret and use financial information. This course will provide students with the fundamental conventions, standards and basic techniques used in collecting and using financial information in organizations.

*Degree credit exclusions: AS/ECON 3580 3.0 Financial Accounting and AS/ECON 3590 3.0 Managerial Accounting. Students who have successfully completed AS/ECON 3580 3.0*

*and AS/ECON 3590 3.0 may not enrol in SB/BFND 3200 3.0, and are therefore exempt from this requirement.*

### SB/BFND 4100 3.0 Markets and Marketing.

This course examines the relationship between the business and a key component of its environment – the individuals or organizations to which it sells products and services. The primary focus of this course is how businesses learn about the markets they deal in, and how they act so as to be effective in attracting and keeping customers and clients.

### SB/BFND 4200 3.0 Management Strategy and Implementation.

Businesses exist in changing multi-dimensional environments. As social inventions, businesses in such environments need explicit strategy to survive and succeed. This course will identify different strategic options and the environment situations that make those options preferable. It will also examine the organizational design and human resource management implications of various strategic choices.

## Certificate in Non-profit Management

### Certificate Office:

Faculty of Arts, Department of Political Science,  
S672 Ross 416-736-5267

### Coordinator:

Ray Bazowski

York University students may earn a Certificate in Non-profit Management in addition to fulfilling the requirements for an undergraduate degree. This Certificate is open to students in all undergraduate faculties except for students enrolled in the Schulich School of Business Bachelor of Business Administration program or the Atkinson Bachelor of Administrative Studies program. Students may not earn both a Certificate in Business Fundamentals and a Certificate in Non-profit Management.

For Certificate requirements please refer to the Faculty of Arts "Programs of Study" section in this Calendar.

## Departmental and Divisional Course Listings required for the Certificate in Non-profit Management

Course descriptions for the courses listed below are contained in the appropriate departmental and divisional listings in the Courses of Instruction section of this Calendar.

AS/ECON 1000 3.0 Introduction to Microeconomics.  
AS/ECON 1010 3.0 introduction to Macroeconomics.  
AS/ECON 2500 3.0 Introductory Statistics for Economists.  
AS/MATH 2560 3.0 Elementary Statistics I.  
AS/POLS 2100 6.0 Introduction to Canadian Government and Politics.  
AS/POLS 3125 3.0 Canadian Political Economy.

AS/POLS 3140 3.0 Political Economy of Labour in Canada.  
 AS/POLS 3190 6.0 Public Administration.  
 AS/POLS 3300 6.0 Statistics for Social Sciences.  
 AS/PSYC 2020 6.0 Analysis of Psychological Data.  
 AS/PSYC 2021 3.0 Introduction to Descriptive Statistics.  
 AS/SOSC 2210 9.0 Labour Relations in Canada.  
 AS/SOSC 2340 9.0 Foundations of Business and Society.  
 AS/SOSC 3190 6.0 Gender, Race and Class in Canada.  
 AS/SOSC 3370 6.0 Social Justice and Law.  
 AS/SOCI 3030 6.0/AS/POLS 3300 6.0 Statistics for Social Sciences.  
 AS/SOCI 3310 6.0 Canadian Society: A Sociological Analysis.  
 AS/SOCI 3340 6.0 Social Change.  
 AS/SOCI 3430 6.0 Ethnicity, Power and Identity.  
 AS/SOSC 2210 9.0 Fundamentals of Business and Society.  
 AS/SOSC 2340 9.0 Labour Relations in Canada: An Introduction.

Listed below are required courses for the Business Fundamentals Certificate mounted by the Schulich School of Business.

**SB/NPMG 3100 3.0 Introduction to the Non-profit Organization.** This course serves as a general introduction to the non-profit sector and to the external environment of organizations that operate in this sector. The course explores the historical roots and the social, political and economic function of the non-profit sector in Canada, as well as in other countries and traditions throughout the world. It examines the legal and policy environments in which non-profit organizations operate and issues with respect to governance and accountability.

**SB/NPMG 3200 Accounting and Finance for Non-profit Organizations.** Managers in non-profit organizations need to interpret and use financial information. This course will provide students with the fundamental conventions, standards and basic techniques used in collecting and using financial information in organizations.

*Degree credit exclusions: AS/ECON 3580 3.0 Financial Accounting and AS/ECON 3590 3.0 Managerial Accounting. Students who have successfully completed AS/ECON 3580 3.0 and AS/ECON 3590 3.0 may not enrol in SB/BFND 3200 3.0, and are therefore exempt from this requirement.*

**SB/NPMG 4100 3.0 Non-profit Marketing.** This course examines the relationship between non-profit organizations and their external constituencies. The course includes an introduction to marketing theory and practice, and the application of these concepts in a non-profit setting. The scope of the course includes specialized topics in social marketing, volunteer marketing, fundraising and philanthropy and advocacy.

*Degree credit exclusion: SB/BFND 4100 3.0.*

**SB/NPMG 4200 3.0 Organizational Behaviour and the Non-profit Organization.** This course is designed to develop students' organizational competence. It examines the relationships

between organizational performance and the behaviour of individuals, groups and overall organizations. The course introduces human resources management, with a particular focus on the culture and structure of non-profit organizations. Emphasis is given to the importance of interpersonal issues and to issues arising from workforce diversity, ethical challenges, funding pressures and technological change.

## Calumet College – Arts

**Academic Program Office:**  
 235 Calumet, 416-736-5098  
**College Master:**  
 Savitsa Sevigny  
**Academic Adviser:**  
 TBA

Listed below are the 1000- and 2000-level nine-credit Foundations courses which are part of the Faculty of Arts General Education requirement. These courses introduce students to interdisciplinary study and emphasize critical thinking, reading and writing skills at the university level, and reflect the academic mandate of the college.

Students enrolling in Calumet College Foundation courses, in either the Division of Humanities or the Division of Social Sciences, will be members of Calumet College with access to academic advising, orientation programs, social and cocurricular events.

### 1000-Level Courses

**AS/HUMA 1650 9.0 The Networked Imagination.** This course explores the technological determinants operating today on almost all cultural forms. The main theme of this course is how the nature of digital representation and communication affects the nature of literature, visual arts and music, altering not only the forms and content, but the roles of artist/author and their audiences.

**AS/HUMA 2190 9.0 Germany Through the Ages.** Germany is now united after almost a half-century of division. In attempting to answer the question as to how new and how united this "New Germany" is, events and personalities are examined which throughout German history have shaped German culture and society.

*Degree credit exclusion: AS/HUMA 2190 6.0.*

**AS/SOSC 1000 9.0 Introduction to Social Science.** The course considers the distinctive characteristics of modern society including the impact of modernization on the family, religion, economic behaviour, politics and belief systems. It introduces many of the major concepts social scientists use in analyzing how society works.

*Degree credit exclusion: AS/SOSC 1000 6.0, AS/SOSC 1009 9.0.*

**AS/SOSC 1731 9.0 CyberCities: The Community and Communication in Changing Urban Areas.** Technology's impact on cities is examined, with emphasis on institutions and landscapes. Changes of metropolitan form, issues of community formation and emerging patterns of work, leisure and urban life are explored in the context of shifting modes of electronic communication.

**AS/SOSC 1740 9.0 Development of Urban Economies: Comparing Canada and The Third World.** This course compares urban economic development in Canada and the Third World in terms of industrialization, urbanization and economic dependency. Themes are: colonial cities and industrial dependence; the multinational corporation, technological dependence and urban employment; urban problems and alternative solutions.

*Degree credit exclusion: AS/SOSC 1740 6.0.*

**AS/SOSC 2080 9.0 Information and Technology.** This course provides students with critical stances with which to view our society's preoccupation with "information" and "technology". We explore how computers can manage information and how this impacts on issues of ethics, control, privacy, censorship and copyright.

*Degree credit exclusions: AS/SOSC 1080 6.0, AS/SOSC 1080 9.0, AS/SOSC 1089 6.0, AS/SOSC 1089 9.0, AS/SOSC 2089 9.0.*

**AS/SOSC 2310 9.0 Introduction to Communications.** This course examines the relationships among the structure of information, the media and technology that convey it, its perception and interpretation by individuals, groups and organizations, and the social, economic and political processes that affect information production and dissemination.

*Degree credit exclusion: AS/SOSC 2310 6.0.*

**AS/SOSC 2330 9.0 The Economics of Law, Policy and Organization.** This course considers Economics as a form of moral argument. This course considers how economists evaluate existing government policies in a broad variety of areas, including housing policies and rent control, environmental protection, and gender equity in the workplace.

*Degree credit exclusions: AS/SOSC 3530 6.0, AS/POLS 3310 6.0.*

## Canadian Studies – Arts

**Program Office:**  
 S741 Ross, 416-736-5054  
**Coordinator of the Program:**  
 J. Hutcheson, Social Science

The Faculty of Arts offers an Honours Double Major Interdisciplinary BA program in Canadian Studies combining 36 credits in the program with a major in another discipline such as Anthropology, Economics, English, French

Studies, Geography, History, Political Science and Sociology.

The main purposes of the program are:

- i. to learn about Canada through the content, concepts and methodologies of a student's major subject;
- ii. to broaden the knowledge of Canada gained through the major subject and also deepen a student's understanding of the country, by study of Canada through other disciplines and through interdisciplinary approaches;
- iii. to coordinate a student's program of courses on Canada;
- iv. to ensure that students will receive a sound training in the basic principles and methodological approaches of their major subject and study some significant non-Canadian subject matter in their major so that they will have a broad grasp of their discipline.

*Note: For specific requirements of this program, please refer to the Faculty of Arts "Programs of Study" section in this Calendar.*

## Centre for Academic Writing – Arts

### Department Office:

S329 Ross, 416-736-5134

### Director of Department:

J. Spencer

### Associate Professor:

R. Sheese

### Associate Lecturers:

T. Greenwald, J. Rehner, J. Spencer

### Current Contract Faculty:

T. Banerjee, M. L. Bat-Hayim, J. Blazina, E. Brulé, M. Coffey, B. Giblon, R. Gillam, M. LaRocque, B. Lowinsky, M.L. McKenna, D. McKim, P. O'Neill, R. Parker, J. Shafer, J. Webber, B. Zimmerman

The Centre for Academic Writing assists students to become effective independent writers, within both their academic life and elsewhere. The primary means of achieving this objective is through the Centre's individualized tutoring program. All Faculty of Arts students are eligible to enrol in this program and take advantage of the opportunity to work on their writing with one of the Centre's experienced faculty. The Centre also regularly offers mini-courses on various issues related to writing effectively in university.

The Centre for Academic Writing offers the following courses for degree credit.

**AS/CAW 1000 3.0 Academic Writing in the Social Sciences.** The course examines the process of reading and writing academic papers with emphasis on the latter. Topics considered include writing as a learning process, developing academic ideas, using and documenting academic sources, planning and organizing a paper, revising and editing.

*Degree credit exclusion: AS/CAW 1200 3.0.*

**AS/CAW 1200 3.0 Academic Writing in the Humanities.** This course examines the process of reading and academic writing with emphasis on the latter. Topics include writing as a learning process, developing academic ideas, using and documenting academic sources, planning and organizing a paper, revising and editing.

*Degree credit exclusion: AS/CAW 1000 3.0.*

## Chemistry – Pure and Applied Science

### Department Office:

124 Chemistry and Computer Science Building, 416-736- 5246

### Chair of the Department:

D.K. Bohme

### University Professor Emeritus:

H.I. Schiff

### Distinguished Research Professors:

D.K. Bohme, A.B.P. Lever

### Distinguished Research Professors Emeriti:

G.O. Aspinall, H.O. Pritchard

### Professor and Guy Warwick Rogers Chair in Atmospheric Chemistry:

G.W. Harris

### Professor and NSERC/MDS SCIEX Chair:

K.W.M. Siu

### Professors:

S.V. Filseth, J.M. Goodings, D.R. Hastie, C.E. Holloway, A.C. Hopkinson, E. Lee-Ruff, C.C. Leznoff, W.J. Pietro, J. Rudolph

### Professor Emeritus:

T. Carrington

### Associate Professors:

R.K. Allan, R. Fournier, S.N. Krylov, R. McLaren, M. Mozurkewich, M.G. Organ, P.G. Potvin, C.M. Sadowski, D.V. Stynes, I.M. Walker

### Associate Professors Emeriti:

D.N. Butler, G. Hunter, C.R. McArthur

### Assistant Professors:

P. Johnson, S. Morin

### Associate Lecturer:

M. Hempstead

Chemistry is the study of the structure and properties of matter including the energy changes that accompany chemical reactions. The understanding gained from these studies is applied in the prediction of the behaviour of matter and in the interpretation of a wide variety of phenomena. Chemistry is linked closely with a number of other subjects, ranging from astrophysics and Earth science to the biological and medical sciences, which involve matter at various levels of complexity.

The Department of Chemistry offers undergraduate courses in all the major sub-disciplines of the subject, including physical, theoretical, analytical, inorganic, organic and biological chemistry. Specialized programs in chemistry (Science section V) include a required core of courses to ensure that the student acquires a broad knowledge of the subject, but also provide opportunities for the student to concentrate on areas of particular interest. In the applied chemistry area the Department of Chemistry also offers

specialization in Atmospheric Chemistry (Science section V).

## Courses in Chemistry

The contact-hour information in the course outlines below specifies the number of hours per week when the course is taught in the daytime in a Fall/Winter Session. If the course is offered in the evening and/or in a Summer Session, the format and scheduling may be different, though equivalent in credit value.

### SC/CHEM 1000 3.0 Chemical Structure.

(formerly half of SC/CHEM 1000 6.0 — before 2001-2002) Introduction to chemistry with emphasis on physical and electronic structure of matter, including gases, liquids and solids. Topics include behaviour of gases; thermochemistry; atomic structure and periodic table; chemical bonding and architecture; structure of liquids and solids; frontiers of chemistry. Two and one-half lecture hours per week, one tutorial hour per week, six three-hour laboratory sessions. One term. Three credits.

*Prerequisites: OAC Chemistry or SC/CHEM 1500 4.0 or equivalent; OAC Physics or SC/PHYS 1510 4.0 or equivalent normally required.*

*Degree credit exclusions: SC/CHEM 1000 6.0, SC/CHEM 1010 6.0, AK/CHEM 2000 6.0.*

### SC/CHEM 1001 3.0 Chemical Dynamics.

(formerly half of SC/CHEM 1000 6.0 — before 2001-2002) This course complements SC/CHEM 1000 3.0 — with emphasis on chemical change and equilibrium. Topics include chemical kinetics; chemical equilibrium; entropy and free energy as driving forces for chemical change; electrochemistry; frontiers in chemistry. Two and one-half lecture hours per week, one tutorial hour per week, six three-hour laboratory sessions. One term. Three credits.

*Prerequisites: OAC Chemistry or SC/CHEM 1500 4.0 or equivalent; OAC Physics or SC/PHYS 1510 4.0 or equivalent normally required.*

*Degree credit exclusions: SC/CHEM 1000 6.0, SC/CHEM 1010 6.0, AK/CHEM 2000 6.0.*

### SC/CHEM 1500 4.0 Introduction to Chemistry.

An introductory course in chemistry for students needing an adequate preparation for SC/CHEM 1000 3.0 and SC/CHEM 1001 3.0. Topics include basic atomic theory, stoichiometry, the periodic table, chemical bonding, equilibria, acids and bases, oxidation-reduction and organic chemistry. Each student is counselled by a faculty adviser to enrol either in this course, or in SC/CHEM 1000 3.0 or SC/CHEM 1001 3.0, depending on previous chemistry experience. Three lecture hours per week, three laboratory hours and two tutorial hours in alternate weeks. One term. Four credits.

*Degree credit exclusions: SC/CHEM 1520 4.0, AK/CHEM 1500 3.0. May not be taken by any student who has taken or is currently taking another university course in chemistry.*

### SC/CHEM 2010 3.0 Symmetry, Electronic Structure and Bonding.

An introduction to elementary group theory and wavefunctions for atoms and molecules. Topics include descriptions of bonding and the use of symmetry in the

construction of molecular orbitals and in the derivation of selection rules for electronic and vibrational spectroscopy. Three lecture hours, one tutorial hour. One term. Three credits.

*Prerequisites:* Both SC/CHEM 1000 3.0 and SC/CHEM 1001 3.0, or SC/CHEM 1000 6.0; AS/SC/MATH 1013 3.0; AS/SC/MATH 1014 3.0.

*Prerequisite or corequisite:* SC/PHYS 1410 6.0 or SC/PHYS 1010 6.0.

**SC/CHEM 2011 3.0 Introduction to Thermodynamics.** This course is an introduction to equilibrium chemical thermodynamics. The three laws of thermodynamics and the thermodynamic state functions are described. Many applications are considered, including the operation of heat engines, phase transformations, thermochemistry and chemical reaction equilibria. Three lecture hours, one tutorial hour. One term. Three credits.

*Prerequisites:* AS/SC/MATH 1013 3.0; AS/SC/MATH 1014 3.0.

*Degree credit exclusions:* SC/CHEM 2050 3.0, AK/CHEM 2050 3.0.

**SC/CHEM 2020 6.0 Organic Chemistry.** (formerly SC/CHEM 2020 5.0 — before Summer 2000) Structure including stereochemistry, physical and chemical properties of simple organic compounds; methods in structure determination; introductory concepts of reaction mechanisms and methods for determination of mechanisms. Two and one-half lecture hours per week, three laboratory hours every second week, one tutorial hour every week. Two terms. Six credits.

*Prerequisite(s):* Both SC/CHEM 1000 3.0 and SC/CHEM 1001 3.0, or SC/CHEM 1000 6.0.

*Degree credit exclusions:* SC/CHEM 2020 5.0, AK/CHEM 2020 7.0.

**SC/CHEM 2030 4.0 Basic Inorganic Chemistry.** The descriptive chemistry of the more common elements is discussed within the context of qualitative inorganic analysis. Principles of ionic equilibria in aqueous solution, elementary coordination chemistry and electrochemical potentials are presented. Three lecture hours, three laboratory hours, one tutorial hour. One term. Four credits.

*Prerequisite(s):* Both SC/CHEM 1000 3.0 and SC/CHEM 1001 3.0, or SC/CHEM 1000 6.0.

**SC/CHEM 2080 4.0 Analytical Chemistry.** Introduction to quantitative chemical analysis and the analytical method; errors and statistical analysis of data; gravimetric and volumetric methods of analysis including acid-base, precipitation, complexation and redox titrimetry; the effect of equilibria on chemical analysis; introduction to potentiometry and spectrophotometry. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisite(s):* Both SC/CHEM 1000 3.0 and SC/CHEM 1001 3.0, or SC/CHEM 1000 6.0.

*Degree credit exclusions:* SC/CHEM 2110 5.0, SC/CHEM 2110 4.0.

#### SC/CHEM 3010 4.0 Physical Chemistry.

An introduction to spectroscopy and statistical thermodynamics for atoms and small molecules. Determination and applications of enthalpies of formation, reaction and solution for different systems. Three lecture hours per week, five three-hour laboratories. First term. Four credits.

*Prerequisites:* SC/CHEM 2010 3.0; SC/CHEM 2011 3.0.

#### SC/CHEM 3011 4.0 Physical Chemistry.

This is an introductory course in chemical kinetics as applied primarily to reactions in the gas phase but also in solution and at electrode surfaces. Three lecture hours per week, five three-hour laboratories. Second term. Four credits.

*Prerequisite:* SC/CHEM 2011 3.0.

*Degree credit exclusion:* SC/CHEM 3210 4.0.

#### SC/CHEM 3020 4.0 Organic Chemistry II.

A course organizing structural organic chemistry on a mechanistic basis and applying these mechanisms to synthesis and degradation. The application of spectroscopic methods is also incorporated where appropriate. Three lecture hours per week, seven three-hour laboratories. One term. Four credits.

*Prerequisites:* SC/CHEM 2010 3.0; SC/CHEM 2020 6.0 or SC/CHEM 2020 5.0; SC/CHEM 2030 4.0.

*Degree credit exclusion:* SC/CHEM 3020 8.0.

#### SC/CHEM 3021 4.0 Organic Chemistry III.

A course building on SC/CHEM 3020 4.0 and introducing methods for probing mechanisms, base-catalyzed reactions, rearrangements, cyclization, strain, pericyclic reactions and other topics. Three lecture hours per week, eight three-hour laboratories. One term. Four credits.

*Prerequisite:* SC/CHEM 3020 4.0.

*Degree credit exclusion:* SC/CHEM 3020 8.0.

#### SC/CHEM 3030 4.0 Transition Metal Chemistry.

The chemistry of the transition metals is discussed from an historical perspective and within the context of modern theories of bonding, structure and spectroscopy. Topics include classical coordination compounds, organometallics, metallocenes, metal carbonyls and bioinorganic chemistry. Three lecture hours per week, seven three-hour laboratory sessions. One term. Four credits.

*Prerequisites:* SC/CHEM 2010 3.0; SC/CHEM 2020 6.0 or SC/CHEM 2020 5.0; SC/CHEM 2030 4.0.

*Degree credit exclusion:* SC/CHEM 3030 8.0.

#### SC/CHEM 3031 4.0 Physical Inorganic Chemistry.

An introduction to physical and theoretical methods in inorganic chemistry. Topics are selected from the following: atomic structure and spectra, molecular orbital and ligand field theory, bonding, electronic spectroscopy, magnetism of metal complexes, photochemistry, electrochemistry, solid state

chemistry, metal-metal bonding. Three lecture hours per week, eight three-hour laboratory sessions. One term. Four credits.

*Prerequisite:* SC/CHEM 3030 4.0.

*Degree credit exclusion:* SC/CHEM 3030 8.0.

#### SC/CHEM 3040 3.0 Computational Chemistry.

An introduction to numerical methods for modeling reaction kinetics, thermodynamics and molecular spectra and structure. Operating system commands, symbolic algebra and molecular modeling software are used for computing exercises. Molecular orbitals, the Born-Oppenheimer approximation, and potential energy surfaces are discussed. Two lecture hours, three computer laboratory hours. One term. Three credits.

*Prerequisites or corequisites:* SC/CHEM 2010 3.0; AK/AS/SC/COSC 1540 3.0.

#### SC/CHEM 3050 3.0 Advanced Biochemistry.

A detailed discussion of enzyme structure and function. The chemistry and metabolism of biological molecules. Metabolic regulation at the level of enzyme activity. Knowledge of general concepts of metabolism and of basic aspects of enzyme structure and function is assumed. Three lecture hours. One term. Three credits.

*Cross-listed to:* SC/BIOL 3010 3.0.

*Prerequisites:* SC/CHEM 2020 6.0 or SC/CHEM 2020 5.0; SC/BIOL 2020 4.0.

*Prerequisite or corequisite:* 3 additional Chemistry credits at the 2000 or 3000 level (e.g. SC/CHEM 2011 3.0) are strongly recommended.

*Degree credit exclusion:* SC/BIOL 3010 3.0.

#### SC/CHEM 3051 3.0 Macromolecules of Biochemical Interest.

A discussion of the structures and functions of naturally occurring macromolecules, including nucleic acids, proteins, polysaccharides and related macromolecular conjugates. Three lecture hours. One term. Three credits.

*Prerequisite:* SC/CHEM 2020 6.0 or SC/CHEM 2020 5.0.

*Prerequisite or corequisite:* SC/CHEM 3020 4.0.

*Degree credit exclusion:* SC/CHEM 3150 3.0.

#### SC/CHEM 3060 3.0 Introductory Atmospheric Chemistry.

An introductory course linking chemistry and atmospheric science. Topics include atmospheric evolution; biogeochemical cycles; sources, transformations and sinks of atmospheric species; human impacts such as acid rain, photochemical smog and depletion of the ozone layer. Three lecture hours. One term. Three credits.

*Cross-listed to:* SC/EATS 3130 3.0.

*Prerequisites:* Both SC/CHEM 1000 3.0 and SC/CHEM 1001 3.0, or SC/CHEM 1000 6.0; one of AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AS/SC/AK/MATH 1310 3.0, AS/SC/MATH 1505 6.0.

*Degree credit exclusions: SC/CHEM 3160 3.0, SC/EATS 3130 3.0.*

**SC/CHEM 3070 3.0 Industrial Chemistry and the Environment.** The chemistry of industrial processes is studied together with the impact of their products on the environment. Topics include petroleum refining, the petrochemical industry, polymers, pesticides, dyes and pharmaceuticals. Molecular aspects of toxicology and pharmacology are discussed. Three lecture hours. One term. Three credits.

*Prerequisite: SC/CHEM 2020 6.0 or SC/CHEM 2020 5.0.*

*Degree credit exclusion: SC/CHEM 3450 3.0.*

**SC/CHEM 3071 3.0 Pharmaceutical Discovery.** A practical look into the pharmaceutical industry, providing an overview of the drug discovery process. Topics include choosing disease states to study, pharmacological assays, rational drug design, synthetic and analytical chemistry, toxicology, drug metabolism and clinical trials. Three hours. One term. Three credits.

*Prerequisites: SC/CHEM 2020 6.0 or SC/CHEM 2020 5.0; SC/BIOL 2020 4.0.*

**SC/CHEM 3080 4.0 Instrumental Methods of Chemical Analysis.** The theory and application of a variety of modern instrumental methods. Topics include basic electronics, signal processing, electroanalytical methods, optical spectroscopy, atomic absorption and emission spectroscopy, chromatography and mass spectrometry. This course covers applications relevant to modern chemical analysis. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisites: SC/CHEM 2080 4.0; SC/PHYS 1010 6.0 or SC/PHYS 1410 6.0.*

*Degree credit exclusions: SC/CHEM 3110 4.0, SC/CHEM 3120 4.0, SC/CHEM 3130 4.0.*

**SC/CHEM 3200 3.0/3200 4.0 Special Topics.** Topics not ordinarily covered in other courses. Lectures and laboratories as appropriate. One term. Three or four credits.

*Prerequisites: Vary depending on the particular topic.*

**SC/CHEM 4010 3.0 Introductory Quantum Chemistry.** The theory of electronic structure and bonding in molecules in terms of Schrodinger wave mechanics; Pauli exclusion principle; Slater determinants; Born-Oppenheimer separation; variation principle; methods of constructing electronic wave functions for molecules; Hartree-Fock and configuration interaction methods. Three lecture hours. First term. Three credits.

*Prerequisites: AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.*

**SC/CHEM 4011 3.0 Physical Chemistry.** Dynamics of collision events in gas phase chemical kinetics; reactions in bulk systems and in molecular beams; applications to

chemical lasers, atmospheric chemistry and combustion. Three lecture hours. Second term. Three credits.

*Prerequisite: SC/CHEM 3011 4.0.*

**SC/CHEM 4012 3.0 Statistical Mechanics.**

Probability distributions; ensembles; partition functions; classical Boltzmann statistics; Fermi-Dirac and Bose-Einstein quantum statistics. Applications are emphasized for the calculation of thermodynamic quantities for gases and solids. Three lecture hours. Second term. Three credits.

*Prerequisites: SC/CHEM 2011 3.0; SC/CHEM 4010 3.0 or equivalent.*

*Degree credit exclusion: SC/PHYS 3030 3.0.*

**SC/CHEM 4020 3.0 Organic Chemistry IV.**

Stereochemistry, with emphasis on the determination of configuration, conformation analysis and reaction stereochemistry. Discussion of the biosynthesis of aromatic compounds, the acetate rule, the terpene rule and alkaloids. Structure elucidation and synthesis of selected natural products. Three lecture hours. One term. Three credits.

*Prerequisite: SC/CHEM 3021 4.0.*

**SC/CHEM 4021 3.0 Synthetic Organic Chemistry.**

A course concentrating on strategies of synthesizing complex molecules, with emphasis on carbon-carbon bond-forming reactions, blocking groups, regioselectivity and stereochemical methods. Three lecture hours. One term. Three credits.

*Prerequisite: SC/CHEM 3021 4.0.*

**SC/CHEM 4022 3.0 Theoretical Organic Chemistry.**

Molecular orbital theory, with applications to structure and reactivity of saturated and unsaturated molecules. Woodward-Hoffmann rules of orbital symmetry. Three lecture hours. One term. Three credits.

*Prerequisites: SC/CHEM 2010 3.0; SC/CHEM 2020 6.0 or SC/CHEM 2020 5.0.*

*Prerequisite or corequisite: SC/CHEM 3021 4.0.*

*Degree credit exclusion: SC/CHEM 4040 3.0.*

**SC/CHEM 4023 3.0 Physical Organic Chemistry.**

Advanced topics, including methods for determining mechanisms, the study of reactive intermediates (carbocations, carbanions, carbenes, carbon radicals), acid catalysis and other aspects of mechanistic organic chemistry. Three lecture hours. One term. Three credits.

*Prerequisite: SC/CHEM 3021 4.0.*

**SC/CHEM 4030 3.0 Instrumental Methods in Inorganic Chemistry.**

Theory and applications of instrumental methods for investigating the structure and properties of inorganic and organometallic compounds. Magnetic resonance techniques (NQR and ESR), ultraviolet-visible, infrared, Raman and resonance Raman spectroscopy are introduced and discussed. Three lecture hours. First term. Three credits.

*Prerequisite: SC/CHEM 3031 4.0.*

**SC/CHEM 4031 3.0 Advanced Inorganic Chemistry.**

Advanced topics in inorganic chemistry, including ligand field theory, magnetism in dilute and coupled spin systems, NMR of paramagnetic molecules, electron spin resonance spectroscopy, space groups and crystal structure determination, photoelectron and x-ray spectra of inorganic molecules and ions. Three lecture hours. Second term. Three credits.

*Prerequisite: SC/CHEM 3031 4.0.*

*Degree credit exclusion: SC/CHEM 4130 3.0.*

**SC/CHEM 4032 3.0 Chemical Applications of Group Theory.**

A general introduction to symmetry operations, point groups, character tables, reducible and irreducible representations and direct products. Applications of group theory to problems in chemistry, with special reference to electronic and vibrational spectroscopy, crystal field and molecular orbital theory. Three lecture hours. One term. Three credits.

*Prerequisites: SC/CHEM 2010 3.0; SC/CHEM 2030 4.0; a background in inorganic chemistry is desirable.*

**SC/CHEM 4060 4.0 Chemistry of the Natural and Polluted Atmosphere.**

A detailed study of the chemistry of atmospheric trace gases, including stratospheric ozone, tropospheric oxidants, photochemical smog and acid deposition. Computer simulation of chemical reaction mechanisms is used throughout the course. Three lecture hours, two computer laboratory hours. One term. Four credits.

*Prerequisites: SC/CHEM 3011 4.0; SC/CHEM 3060 3.0 or SC/EATS 3130 3.0.*

*Degree credit exclusion: SC/CHEM 4140 4.0.*

**SC/CHEM 4061 4.0 Transport and Chemistry of Atmospheric Trace Gases.**

A study of the processes that affect the composition of the atmosphere and the methods used to include these in numerical models. Included are sources, transport, deposition, photochemistry, biogeochemical cycles, one-dimensional computer models and analysis of atmospheric data sets. Three lecture hours, two computer laboratory hours. One term. Four credits.

*Cross-listed to: SC/EATS 4170 4.0.*

*Prerequisites: SC/CHEM 3060 3.0 or SC/EATS 3130 3.0; AK/AS/SC/COSC 1540 3.0; AS/SC/AK/MATH 2270 3.0.*

*Degree credit exclusions: SC/CHEM 4150 4.0, SC/EATS 4170 4.0.*

**SC/CHEM 4080 3.0 Advanced Analytical Separation Methods.**

(formerly SC/CHEM 4200D 3.0 — before 2001-2002) Advanced theory and practice of high-resolution separation techniques, especially high-resolution chromatography and capillary electrophoresis, with emphasis on the practical application of advanced theories and the problem of optimizing separation procedures. Analytical procedures as integrated methods. Possibilities and limitations of interfacing sample injection, separation method and detection. Three lecture hours. One term. Three credits.



*Prerequisite: SC/CHEM 3080 4.0.*

*Degree credit exclusion: SC/CHEM 4200D 3.0.*

**SC/CHEM 4100 3.0/4100 6.0 Research Project.** An original laboratory or theoretical project, supported by studies of the relevant scientific literature. Not fewer than 200 laboratory hours, 12 tutorial hours. Two terms or equivalent. Six credits. Not fewer than 100 laboratory hours, six tutorial hours. One term or equivalent. Three credits.

*Prerequisites: Only open to Honours students in the final year of study, with permission of the department.*

**SC/CHEM 4200 3.0/4200 4.0/4200 6.0 Special Topics.** Topics not ordinarily covered in other chemistry courses. Lectures and laboratories over one or two terms as appropriate. Six, four or three credits.

**SC/CHEM 4300 3.0/4300 6.0 Selected Topics in Chemistry.** By special arrangement through the Chair of the Chemistry Department, a student may enrol in a reading course under the direction of a member of the Chemistry faculty to study in a special area of chemistry. Regular meetings. Two terms. Six credits. One term. Three credits.

## Classical Studies (Classics) – Arts

### Program Office:

210 Vanier 416-736-5910

### Director of the Program:

J. Edmondson

### Distinguished Research Professor:

M.W. Herren

### Professors:

P.T.R. Gray; D. Hobson; G.P.R. Métraux

### Professors Emeriti:

V.J. Hunter; H. Parry

### Associate Professors:

M. Clark; J. Edmondson; S. Mason; G. Naddaf; J. Rives; P.R. Swarney; J.C. Trevett

### Associate Professor Emeritus:

J.C. Stephens

### Assistant Professor:

V.G. Stephens

### Honorary Member:

A.G. McKay

### Associate Member:

B. Roe

The Classical Studies program offers a varied approach to the study of the Greek and Roman world through degree programs designed to meet a wide range of needs and interests. Courses in Greek and Latin language training and in classical literature are available to students who wish to develop their understanding of the history, poetry and philosophy of ancient Greece and Rome through detailed study of classical authors in the original languages. Classical Studies in conjunction with History, Humanities, Philosophy and Fine Arts also offers courses based on English translations of classical authors which afford students an opportunity to investigate more generally the history, philosophy, literary history and the art and architecture of the classical world. For the several programs of study available in

Classical Studies, please consult the Faculty of Arts "Programs of Study" section.

*Note: Not all courses will be offered in any given year; consult the program director for details.*

*Note: For a list of Atkinson courses which are degree credit exclusions, students should consult the degree credit exclusion/equivalent tables in the Lecture Schedule or the departmental/divisional supplemental calendars.*

## Courses in Greek

### I. Language Course

#### AS/GK 1000 6.0 Elementary Classical Greek.

*Note: See Languages, Literatures and Linguistics.*

### II. Literature Courses

*Note: Prerequisites for 2000-level courses: AS/GK 1000 6.0 or equivalent or permission of Director of Classical Studies.*

*Note: Prerequisites for 3000-level courses: AS/GK 2000 6.0 or equivalent or permission of Director of Classical Studies.*

**AS/GK 2000 6.0 Intermediate Classical Greek.** Selections from various ancient Greek authors chosen at the discretion of the instructor.

**AS/GK 3010 3.0 Greek Tragedy.** A study of the plays of Aeschylus, Sophocles and Euripides.

*Degree credit exclusions: AS/GK 4010 3.0 (as of Fall/Winter 2000), AS/GK 3010 6.0.*

**AS/GK 3030 3.0 Greek Epic Poetry.** Readings from Homer's Iliad and Odyssey.

*Degree credit exclusions: AS/GK 4030 3.0 (as of Fall/Winter 2000), AS/GK 3030 6.0.*

**AS/GK 3040 3.0 Greek Historians.** A study of selected works by Greek historians such as Herodotus, Thucydides and Xenophon.

*Degree credit exclusions: AS/GK 4040 3.0 (as of Fall/Winter 2000), AS/GK 4020 6.0 (prior to Fall/Winter 1990).*

**AS/GK 3050 3.0 Socrates.** A careful study of Socrates, the man and the philosopher, in the dialogues of Plato and the writings of other Classical Greek authors.

*Degree credit exclusion: AS/GK 4050 3.0.*

**AS/GK 3060 3.0 Greek Rhetoric.** A study of Greek prose style and the principals of Greek rhetoric.

*Degree credit exclusions: AS/GK 4060 3.0, AS/GK 3060 6.0.*

**AS/GK 3110 3.0 Greek Lyric and Choral Poetry.** A study of selected poems by Pindar and other lyric poets and of choral poetry drawn from Greek drama.

*Degree credit exclusions: AS/GK 4110 3.0, AS/GK 4010 3.0 (prior to Fall/Winter 2000), AS/GK 4020 6.0 (prior to Fall/Winter 1990).*

**AS/GK 4010 3.0 Greek Tragedy.** A study of the plays of Aeschylus, Sophocles and Euripides.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusions: AS/GK 3010 3.0, AS/GK 3010 6.0.*

**AS/GK 4030 3.0 Greek Epic Poetry.** Readings from Homer's Iliad and Odyssey.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusions: AS/GK 3030 3.0, AS/GK 3030 6.0.*

**AS/GK 4040 3.0 Greek Historians.** A study of selected works by Greek historians such as Herodotus, Thucydides and Xenophon.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusions: AS/GK 3040 3.0, AS/GK 4020 6.0 (prior to Fall/Winter 1990).*

**AS/GK 4050 3.0 Socrates.** A careful study of Socrates, the man and the philosopher, in the dialogues of Plato and the writings of other Classical Greek authors.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusion: AS/GK 3050 3.0.*

**AS/GK 4060 3.0 Greek Rhetoric.** A study of Greek prose style and the principals of Greek rhetoric.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusions: AS/GK 3060 3.0, AS/GK 3060 6.0.*

**AS/GK 4110 3.0 Greek Lyric and Choral Poetry.** A study of selected poems by Pindar and other lyric poets and of choral poetry drawn from Greek drama.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusions: AS/GK 3110 3.0, AS/GK 4010 3.0 (prior to Fall/Winter 2000), AS/GK 4020 6.0 (prior to Fall/Winter 1990).*

**AS/GK 4130 6.0 Guided Readings in Greek Authors.** An independent reading program with material chosen according to the interest of the student.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusion: AS/GK 4030 6.0 (prior to Fall/Winter 2000).*

*Note: Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent study courses.*

**AS/GK 4140 6.0 Honours Essay.** Open only to honours candidates with the permission of the Director.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusion: AS/GK 4040 6.0 (prior to Fall/Winter 2000).*

*Note: Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent study courses.*

## Courses in Latin

### I. Language Courses

#### AS/LA 1000 6.0 Elementary Latin.

*Note: See Languages, Literatures and Linguistics.*

### II. Literature Courses

*Note: Prerequisites for 2000-level courses: OAC Latin or AS/LA 1000 6.0 or permission of Director of Classical Studies.*

*Note: Prerequisites for 3000-level courses: AS/LA 2000 6.0 or permission of Director of Classical Studies.*

**AS/LA 2000 6.0 Intermediate Latin.** This is an intensive course in the reading of Latin prose and poetry intended for students who have had OAC Latin or AS/LA 1000 6.0.

**AS/LA 3010 3.0 Roman Epic Poetry.** A study of two Augustan epics: Vergil's *Aeneid* and Ovid's *Metamorphoses*.

*Degree credit exclusions: AS/LA 4010 3.0 (as of Fall/Winter 2000), AS/LA 3010 6.0.*

**AS/LA 3020 3.0 Roman Lyric Poetry.** A study of selected works of lyric poetry by authors such as Catullus and Horace.

*Degree credit exclusions: AS/LA 4020 3.0 (as of Fall/Winter 2000), AS/LA 3020 6.0.*

**AS/LA 3030 3.0 Roman Elegiac Poetry.** A study of the love poems of Propertius, Tibullus and Ovid.

*Degree credit exclusions: AS/LA 4030 3.0 (as of Fall/Winter 2000), AS/LA 3030 6.0.*

**AS/LA 3040 3.0 Roman Philosophical Writings.** A study of the works of Lucretius, Cicero and others.

*Degree credit exclusion: AS/LA 4040 3.0 (as of Fall/Winter 2000).*

**AS/LA 3050 6.0 Survey of Latin Literature.** A survey of ancient Latin literature designed to supplement existing course offerings and to give students a sense of the range of Roman literary expression.

*Degree credit exclusion: AS/LA 4050 6.0.*

**AS/LA 3060 3.0 Roman Historians.** A study of selected works by Roman historians such as Caesar, Livy and Tacitus.

*Degree credit exclusion: AS/LA 4060 3.0.*

**AS/LA 3070 3.0 Roman Rhetoric.** The course examines the main principles of Roman rhetoric through a study in the original Latin of

selected speeches of Cicero, speeches incorporated into other Roman prose texts and passages from works of rhetorical theory.

*Degree credit exclusion: AS/LA 4070 3.0.*

**AS/LA 3110 3.0 The Roman Novel.** Studies in Petronius and Apuleius.

*Degree credit exclusions: AS/LA 4110 3.0, AS/LA 4010 3.0 (prior to Fall/Winter 2000), AS/LA 4010 6.0 (prior to Fall/Winter 1993).*

**AS/LA 3120 3.0 Roman Satire.** A study of the development and central themes of Roman Satire and the literary achievement of the Roman Satirists, particularly Horace and Juvenal.

*Degree credit exclusions: AS/LA 4120 3.0, AS/LA 4020 3.0 (prior to Fall/Winter 2000), AS/LA 3060 6.0 (prior to Fall/Winter 1993).*

**AS/LA 4010 3.0 Roman Epic Poetry.** A study of two Augustan epics: Vergil's *Aeneid* and Ovid's *Metamorphoses*.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusions: AS/LA 3010 3.0, AS/LA 3010 6.0.*

**AS/LA 4020 3.0 Roman Lyric Poetry.** A study of selected works of lyric poetry by authors such as Catullus and Horace.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusions: AS/LA 3020 3.0, AS/LA 3020 6.0.*

**AS/LA 4030 3.0 Roman Elegiac Poetry.** A study of the love poems of Propertius, Tibullus and Ovid.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusions: AS/LA 3030 3.0, AS/LA 3030 6.0.*

**AS/LA 4040 3.0 Roman Philosophical Writings.** A study of the works of Lucretius, Cicero and others.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusion: AS/LA 3040 3.0.*

**AS/LA 4050 6.0 Survey of Latin Literature.** A survey of ancient Latin literature designed to supplement existing course offerings and to give students a sense of the range of Roman literary expression.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusion: AS/LA 3050 6.0.*

**AS/LA 4060 3.0 Roman Historians.** A study of selected works by Roman historians such as Caesar, Livy and Tacitus.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusion: AS/LA 3060 3.0.*

**AS/LA 4070 3.0 Roman Rhetoric.** The course examines the main principles of Roman rhetoric through a study in the original Latin of selected speeches of Cicero, speeches incorporated into other Roman prose texts and passages from works of rhetorical theory.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusion: AS/LA 3070 3.0.*

**AS/LA 4110 3.0 The Roman Novel.** Studies in Petronius and Apuleius.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusions: AS/LA 3110 3.0, AS/LA 4010 3.0 (prior to Fall/Winter 2000), AS/LA 4010 6.0 (prior to Fall/Winter 1993).*

**AS/LA 4120 3.0 Roman Satire.** A study of the development and central themes of Roman Satire and the literary achievement of the Roman Satirists, particularly Horace and Juvenal.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusions: AS/LA 3120 3.0, AS/LA 4020 3.0 (prior to Fall/Winter 2000), AS/LA 3060 6.0 (prior to Fall/Winter 1993).*

**AS/LA 4130 6.0 Guided Readings in Roman Authors.** An independent reading program with material chosen according to the interest of the student.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusion: AS/LA 4030 6.0 (prior to Fall/Winter 2000).*

*Note: Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent study courses.*

**AS/LA 4140 6.0 Honours Essay.** Open only to honours candidates with the permission of the Director.

*Prerequisite: Permission of Director of Classical Studies.*

*Degree credit exclusion: AS/LA 4040 6.0 (prior to Fall/Winter 2000).*

*Note: Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent study courses.*

## Departmental and Divisional Courses in Classical Studies

### Literature and Culture

AS/HUMA 1100 9.0 The Worlds of Greece and Rome.

AS/HUMA 1105 9.0 Myth and Imagination in Ancient Greece and Rome.

AS/HUMA 2100 6.0 The World of the Ancient Greeks.

AS/HUMA 2110 9.0 Egypt in the Greek and Roman Mediterranean.

AS/HUMA 2830 9.0 The Founders of Christianity.

AS/HUMA 3100 6.0 Greek Drama and Culture.

AS/HUMA 3110 6.0 Roman Culture and Society.

AS/HUMA 4100 6.0 Studies in Greek and Roman Culture.  
AS/HUMA 4101 6.0 Narratives in Ancient Art and Literature.

### Greek and Roman History

AS/HIST 2100 6.0 Ancient Greece and Rome.  
AS/HIST 3120 6.0 Foundations of Athenian Democracy.  
AS/HIST 3130 6.0 The Roman Revolution.  
AS/HIST 3131 6.0 Rome and Empire: From War to the Pax Romana.  
AS/HIST 4120 6.0 Problems in the History of Ancient Greece.  
AS/HIST 4130 6.0 Problems in Roman History.  
AS/HIST 4140 6.0 Problems in Hellenistic History.  
AS/HIST 4150 6.0 Topics in Ancient Social History.

### Philosophy

AS/PHIL 2010 3.0 The Origins of Western Philosophy.  
AS/PHIL 2015 3.0 Plato and Aristotle.  
AS/PHIL 4030 3.0 Topics in Ancient Philosophy.

### Political Thought

AS/POLS 3010 3.0 Ancient and Medieval Political Thought.  
AS/POLS 4030 3.0 Classical Political Thought.

### Art and Architecture

FA/VISA 2520 3.0 Greek Art and Architecture.  
FA/VISA 2530 3.0 Roman Art and Architecture.  
FA/VISA 4540 6.0 Problems in Ancient or Medieval Art and Architecture.

**The following courses are largely, but not exclusively, concerned with classical antiquity. No more than two may satisfy degree requirements in Classical Studies.**

AS/HUMA 1110 9.0 Greek and Biblical Traditions.  
AS/HUMA 3895 6.0 Magic and Imagination.  
AS/HIST 2110 6.0 The Ancient Near East.  
AS/HIST 3100 6.0 Mesopotamian History.  
AS/HIST 3110 6.0 Ancient Israel: From its Origins in the Settlement to the Babylonian Exile.  
AS/HIST 4100 6.0 Selected Problems in Israelite History.  
AS/HUMA 4650 6.0 Myth and Mythology.  
FA/VISA 4370 6.0 Signs and Symbolism in Western Art.

## Colleges - Refer to Individual College

## Communication Arts – Joint Program with Colleges of Applied Arts and Technology

Students in the Faculty of Arts may study concurrently towards a Honours BA or BA Degree at York and a Diploma or Certificate in one of four areas of study in Communication Arts at Centennial or Seneca College. The following areas are available through the colleges of applied arts and technology:

- Book and Magazine Publishing (Centennial - Certificate)
- Corporate Communications (Centennial - Diploma)
- Creative Advertising (Seneca - Diploma)
- Radio and Television Broadcasting (Seneca - Diploma)

Faculty of Arts students in an Honours BA program are eligible for entry to the Joint program after the successful completion of at least 90 credits at York and students in a BA program are eligible for entry after the successful completion of at least 60 credits at York. All students must complete the requirements for an Honours BA or BA degree in the Faculty of Arts. The Joint program normally takes only one year longer to complete because some advanced standing credit is given by York and the College, if conditions of eligibility for advanced standing are met.

For further information, please contact the Advising Centre, S319 Ross, 416-736-5022.

## Communication Studies – Arts

**Program Office (Division of Social Science):**

301 Calumet, 416-736-5057

**Coordinator of the Program:**

D. Hogarth

**Advisers:**

H. Breslow, Social Science; B. Crow, Social Science; J. Durlak, Social Science;  
F. Fletcher, Political Science; D. Hogarth, Social Science; D. Kehoe, Social Science;  
B. Seaton, Social Science

Communication Studies is offered as an Honours Double Major Interdisciplinary BA program and as a Specialized Honours BA program. Communication Studies provides students with a comprehensive understanding of the traditional forms of mass communication (print, radio, film, television). It also examines the emerging interactive telecommunications networks and computer systems which have introduced new media and services such as teleconferencing and electronic publishing.

The emphasis of the program is academic rather than technical. Communication Studies cannot be viewed as providing vocational skills such as journalism. The aim is to produce graduates who have acquired skills in communications analysis and a synthesis of knowledge in the increasingly complex field of communications.

Students in the Honours Double Major Interdisciplinary program may combine Communication Studies with another approved discipline such as Anthropology, Computer Science, Economics, English, French Studies, German, Humanities, Italian, Linguistics, Philosophy, Psychology, Political Science, Russian, Spanish, Sociology and Women's Studies. Students may also combine Communication Studies with one of the following approved free-standing interdisciplinary programs: Classical Studies,

Creative Writing, East Asian Studies and Religious Studies. Students who wish to pursue an Honours Double Major Interdisciplinary BA in a discipline within the Faculty of Arts not formally linked with the program must submit a statement to the program coordinator and Chair or Undergraduate Director of the other discipline which outlines their proposed course of study and an argument as to how this course of study would result in a firm academic link between the theme of the program and the other discipline. Written approval must be attained from the Communication Studies program coordinator and the Chair or Director of Undergraduate Studies of the other discipline.

The Specialized Honours BA program in Communication Studies is a limited enrolment program. Admission to the program requires that students achieve a B (6.0) average in AS/SOSC 2310 9.0, Introduction to Communications and at least 6 other Communication Studies credits and a cumulative Grade Point Average of at least C+ (5.0). Continuation in and graduation from, the program requires that students maintain a cumulative Grade Point Average of C+ (5.0) as well as at least a B (6.0) average on all 54 Communication Studies credits. For more information regarding admission to the Specialized Honours BA program, please consult the Communication Studies supplemental calendar or contact the program office.

For information regarding specific degree requirements and program courses, please consult the Faculty of Arts "Programs of Study" section in this Calendar. Descriptions of the content and format of Communication Studies courses are to be found in the appropriate divisional and departmental listings in this Calendar. For Atkinson courses, please see the Atkinson Calendar.

## Computer Science – Pure and Applied Science, Arts, Atkinson Faculty of Liberal and Professional Studies

**Department Office:**

126 Chemistry and Computer Science Building, 416-736- 5053

**Undergraduate/Graduate Office:**

125 Chemistry and Computer Science Building, 416-736- 5334

**Chair of the Department:**

M.R.M. Jenkin

**Professors:**

E. Arjomandi, P.W. Dymond, M.R.M. Jenkin, J.W.H. Liu, J.C. Majithia, G. Tourlakis, J. Tsotsos

**Associate Professors:**

M. Aboelaze, J. Amanatides, J. Edmonds, Y. Lesperance, S. MacKenzie, M. Mandelbaum, J. Mason, A. Mirzaian, J. Ostroff, P.H. Roosen-Runge, M. Spetsakis, Z. Stachniak, A. Toptsis, R.M. Wharton, J. Xu

## Assistant Professors:

R. Allison, A. An, P. Godfrey, G.J. Gotshalks, J. Gryz, R. Paige, E. Ruppert, H.S. Sandhu, W. Stuerzlinger, F. van Breugel, A. Wallis

## Senior Lecturer:

P.H. Cribb

## Lecturer:

S. Datta

## Associate Lecturer:

H. Roumani

Computer science is the study of processes involving the storage, transmission and transformation of information in the context of modern electronic technology. Both theoretical and applied areas of computer science are represented in the courses offered by the department. The introductory courses (two for majors, three for non-majors) are concerned largely with programming as the primary tool used for understanding and controlling computation. The higher-level courses deal with theoretical concerns, the practical design of hardware and software, and a variety of application areas.

The department offers a Specialized Honours applied science degree stream in Space and Communication Sciences, developed to meet the needs of rapidly expanding technologies in these fields. The required courses for this stream are extensive and are detailed in Science section V.

For specific requirements of programs offered by this department, see Science section V for BSc and BSc Honours programs and the Faculty of Arts "Programs of Study" section of this Calendar for BA and BA Honours programs. For degree programs offered through the Atkinson Faculty of Liberal and Professional Studies, see the Calendar of that Faculty.

## Courses in Computer Science

A supplemental calendar detailing courses and topics to be offered in the next year is available from the department office in March.

For the purpose of satisfying departmental degree requirements, the number of Computer Science credits taken outside the Department of Computer Science may not exceed six credits in core areas (here defined to be 1000- and 2000-level Computer Science courses, 3000-level Computer Science courses satisfying the breadth requirement and, for Specialized Honours students, any required 3000- and 4000-level Computer Science courses) and 12 credits in total.

**Course numbering.** Computer Science courses with "5" as the second digit of the course number may be used to satisfy Faculty degree requirements but do not count as Computer Science major credits. 3000- and 4000-level Computer Science courses are divided by number into four areas as follows: theory and numerical computation (second digit is 1), systems (second digit is 2), software development (second digit is 3) and applications (second digit is 4).

Courses in Computer Science have three class hours a week for one term (three credits -

course numbers end in "3.0"), unless otherwise indicated.

The Department of Computer Science will not permit any student to take more than 12 Computer Science credits per term in the Fall and Winter terms and six Computer Science credits in the Summer Term. Students who work full-time are strongly advised to take no more than six credits in any term.

For prerequisite purposes, AS/SC/MATH 1000 3.0 or AS/SC/MATH 1013 3.0 may be substituted in lieu of AS/SC/AK/MATH 1300 3.0; AS/SC/MATH 1010 3.0 or AS/SC/MATH 1014 3.0 in lieu of AS/SC/AK/MATH 1310 3.0; AS/SC/AK/MATH 1021 3.0 or AS/SC/MATH 2021 3.0 or AS/SC/AK/MATH 2221 3.0 in lieu of AS/SC/MATH 1025 3.0.

## 1000-Level Courses

**AK/AS/SC/COSC 1020 3.0 Introduction to Computer Science I.** The main objective of the course is to introduce the student to problem solving using a procedural programming language. The course also covers the tools and techniques of an advanced interactive programming environment and simple data structures and algorithms. Three lecture hours, laboratory exercises.

*Cross-listed to:* AS/AK/ITEC 1020 3.0.

*Prerequisites:* If no university-level mathematics: OAC Calculus and one other OAC in mathematics (normally Finite Mathematics or Algebra and Geometry) with an average grade of 75 per cent in all OAC mathematics and no grade less than 65 per cent; otherwise: at least six credits of university-level mathematics with a grade average over all MATH credits of C+ or better [B+ or better if it is a service course (second digit is 5) or AK/MATH 1710 6.0]. *Recommended:* Previous programming experience; for example, a high school programming course or AK/AS/SC/COSC 1530 3.0.

*Degree credit exclusions:* AK/COSC 2200B 3.0, AK/COSC 2410 6.0, AK/COSC 2411 3.0, AS/AK/ITEC 1020 3.0.

**AK/AS/SC/COSC 1030 3.0 Introduction to Computer Science II.** The main objective of the course is to provide the student with a rudimentary understanding of algorithms and data structures. Three lecture hours, laboratory exercises.

*Cross-listed to:* AS/AK/ITEC 1030 3.0.

*Prerequisite:* AK/AS/SC/COSC 1020 3.0 or AK/COSC 2411 3.0 or AS/AK/ITEC 1020 3.0.

*Degree credit exclusions:* AK/COSC 2410 6.0, AK/COSC 2412 3.0, AS/AK/ITEC 1030 3.0.

**AK/AS/SC/COSC 1520 3.0 Introduction to Computer Use I.** An introduction to the use of computers focusing on concepts of computer technology and organization (hardware and software) and the use of applications such as spreadsheets, database and information retrieval tools for problem solving. The course requires extensive laboratory work. This course is designed for students who are not

Computer Science majors. Students who plan to major in Computer Science are advised to take AK/AS/SC/COSC 1020 3.0.

*Degree credit exclusions:* AK/COSC 1200 3.0, AK/COSC 1210 3.0. This course is not open to any student who has passed or is taking AK/AS/SC/COSC 1020 3.0 or AK/COSC 2200B 3.0 or AK/COSC 2410 6.0 or AK/COSC 2411 3.0 or AS/AK/ITEC 1020 3.0.

**AK/AS/SC/COSC 1530 3.0 Introduction to Computer Use II.** Concepts of computer systems and technology — e.g. software engineering, algorithms, programming languages, theory of computation. Practical work focuses on problem solving using a high-level programming language. The course requires extensive laboratory work. This course is designed for students who are not Computer Science majors, but may be used as preparation by those who wish to major in Computer Science but lack programming background. Students who plan to major in Computer Science must also take AK/AS/SC/COSC 1020 3.0 and AK/AS/SC/COSC 1030 3.0.

*Degree credit exclusions:* AK/AS/SC/COSC 1540 3.0. This course is not open to any student who has passed or is taking AK/AS/SC/COSC 1020 3.0 or AK/COSC 2200B 3.0 or AK/COSC 2410 6.0 or AK/COSC 2411 3.0 or AS/AK/ITEC 1020 3.0.

**AK/AS/SC/COSC 1540 3.0 Computer Use for the Natural Sciences.** Introduction to problem solving using computers — top down and modular design; implementation in a procedural programming language — control structures, data structures, subprograms; application to simple numerical methods, modelling and simulation in the sciences; use of library subprograms.

*Degree credit exclusions:* AK/AS/SC/COSC 1530 3.0. This course is not open to any student who has passed or is taking AK/AS/SC/COSC 1020 3.0 or AK/COSC 2200B 3.0 or AK/COSC 2410 6.0 or AK/COSC 2411 3.0 or AS/AK/ITEC 1020 3.0.

## 2000-Level Courses

**General Prerequisites.** All 2000-level Computer Science courses require the following general prerequisites:

- AK/AS/SC/COSC 1030 3.0 or AK/COSC 2412 3.0 or AS/AK/ITEC 1030 3.0;
- a cumulative grade point average of 4.5 or better over all completed Computer Science courses;
- AS/SC/AK/MATH 1090 3.0 or AK/MATH 2441 3.0.

**AK/AS/SC/COSC 2001 3.0 Introduction to Theory of Computation.** Introduction to the theory of computing, including automata theory, formal languages and Turing machines; theoretical models and their applications in various fields of computer science. The emphasis is on practical applications of the theory and concepts rather than formal rigour.

*Prerequisites:* General prerequisites.

*Degree credit exclusion:* AK/COSC 3431 3.0.

**AK/AS/SC/COSC 2011 3.0 Fundamentals of Data Structures.** A study of fundamental data structures and their use in the efficient implementation of algorithms. Topics include abstract data types, lists, stacks, queues, trees and graphs.

*Cross-listed to:* AS/AK/ITEC 2011 3.0.

*Prerequisites:* General prerequisites.

*Degree credit exclusions:* AK/COSC 3501 3.0, AS/AK/ITEC 2011 3.0.

**AK/AS/SC/COSC 2021 3.0 Computer Organization.** Computer structures, digital representation of data, machine languages, instruction execution and addressing techniques. The major functional blocks of a computer: main memory, control unit, arithmetic and logic unit, input/output bus structures, interrupt system, DMA channels, peripheral devices.

*Cross-listed to:* AS/AK/ITEC 2021 3.0.

*Prerequisites:* General prerequisites.

*Degree credit exclusions:* AK/COSC 3411 3.0, AK/COSC 3412 3.0, AK/COSC 3460 3.0, AS/AK/ITEC 2021 3.0.

**AK/AS/SC/COSC 2031 3.0 Software Tools.**

Tools commonly used in the software development process: the C language; shell programming; filters and pipes; version control systems and "make"; debugging and testing.

*Prerequisites:* General prerequisites.

### 3000-Level Courses

**General Prerequisites.** Most 3000-level Computer Science courses require the following general prerequisites, in addition to or including any specifically stated in the course outlines below:

- AK/AS/SC/COSC 2011 3.0 or AK/COSC 3501 3.0 or AS/AK/ITEC 2011 3.0;
- at least one of AK/AS/SC/COSC 2001 3.0, AK/AS/SC/COSC 2021 3.0, AK/AS/SC/COSC 2031 3.0, AK/COSC 3411 3.0, AK/COSC 3431 3.0, AS/AK/ITEC 2021 3.0;
- a cumulative grade point average of 4.5 or better over all completed Computer Science courses;
- AS/SC/AK/MATH 1300 3.0; AS/SC/AK/MATH 1310 3.0;
- at least one of AS/SC/MATH 1025 3.0, AS/SC/AK/MATH 2090 3.0, AS/SC/AK/MATH 2320 3.0, AK/MATH 2442 3.0.

**SC/COSC 3001 1.0 Organization and Management Seminar in Space and Communication Sciences.**

A seminar course taught by guest speakers from industry, government and the University. Content changes from year to year, but includes such topics as professional ethics, communications regulations, space law, space science policy, project management, privacy and security issues in computing. One lecture hour in alternate weeks. Two terms. One credit.

*Cross-listed to:* SC/EATS 3001 1.0, SC/PHYS 3001 1.0.

*Prerequisite:* Eligibility to proceed in the Specialized Honours stream in Space and Communication Sciences beyond the 2000-level requirements.

*Degree credit exclusions:* AS/SC/COSC 3002 1.0, SC/EATS 3001 1.0, SC/PHYS 3001 1.0.

**AS/SC/COSC 3002 1.0 Organization and Management Seminar.**

A seminar course taught by guest speakers from industry, government and the University. Content changes from year to year, but includes such topics as professional ethics, communications regulations, project management, privacy and security, legal issues in computing. One lecture hour in alternate weeks. Two terms. One credit.

*Prerequisites:* General prerequisites.

*Degree credit exclusions:* SC/COSC 3001 1.0, SC/EATS 3001 1.0, SC/PHYS 3001 1.0.

**AK/AS/SC/COSC 3010 3.0 Special Topics in Computer Science.**

Half courses or seminars on particular topics not otherwise available.

*Prerequisites:* Vary depending on the particular topic but include at least the general prerequisites.

**AK/AS/SC/COSC 3101 3.0 Design and Analysis of Algorithms.**

Review of fundamental data structures. Analysis of algorithms: time and space complexity. Algorithm design paradigms: divide-and-conquer, exploring graphs, greedy methods, local search, dynamic programming, probabilistic algorithms, computational geometry. NP-complete problems.

*Prerequisites:* General prerequisites, including AS/SC/AK/MATH 2090 3.0 or AS/SC/AK/MATH 2320 3.0 or AK/MATH 2442 3.0.

*Degree credit exclusion:* AK/COSC 3432 3.0.

**AK/AS/SC/COSC 3121 3.0 Introduction to Numerical Computations I.**

An introductory course in computational linear algebra. Topics include simple error analysis, linear systems of equations, non-linear equations, linear least squares and interpolation.

*Cross-listed to:* AS/SC/MATH 3241 3.0.

*Prerequisites:* One of AK/AS/SC/COSC 1540 3.0, AK/AS/SC/COSC 2031 3.0, AK/COSC 3501 3.0; one of AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AS/SC/AK/MATH 1310 3.0; one of AS/SC/AK/MATH 1021 3.0, AS/SC/MATH 1025 3.0, AS/SC/MATH 2021 3.0, AS/SC/AK/MATH 2221 3.0.

*Degree credit exclusions:* AK/COSC 3511 3.0, AS/SC/MATH 3241 3.0.

**AK/AS/SC/COSC 3122 3.0 Introduction to Numerical Computations II.**

Algorithms and computer methods for solving problems of differentiation, integration, differential equations, and an introduction to systems of non-linear equations.

*Cross-listed to:* AS/SC/MATH 3242 3.0.

*Prerequisites:* AS/SC/AK/MATH 2270 3.0; AK/AS/SC/COSC 3121 3.0 or AK/COSC 3511 3.0 or AS/SC/MATH 3241 3.0.

*Degree credit exclusions:* AK/COSC 3512 3.0, AS/SC/MATH 3242 3.0.

**AK/AS/SC/COSC 3201 3.0 Digital Logic Design.**

Introduction to logic design. Analysis and design of combinatorial and sequential circuits. Standard MSI and LSI circuits, programmable logic device (PLD) and their use in the design of digital systems. Reliable design and fault detection. Laboratory experiments.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 2021 3.0 or AK/COSC 3411 3.0 or AS/AK/ITEC 2021 3.0.

**AK/AS/SC/COSC 3211 3.0 Data Communication.**

This course covers, in some detail, the first three layers in the OSI computer communication model. It concentrates on the data link and network layers. Examples of local area networks and wide area networks are presented in detail.

*Prerequisites:* General prerequisites, including AS/SC/AK/MATH 2090 3.0, and AK/AS/SC/COSC 2021 3.0 or AK/COSC 3411 3.0 or AS/AK/ITEC 2021 3.0.

*Degree credit exclusions:* AK/AS/SC/COSC 3213 3.0, AK/COSC 3409A 3.0.

**AK/AS/SC/COSC 3213 3.0 Computer Networks I.**

This course introduces the basics of communications and networking. Topics include transmission media; fundamental limits; protocols and hierarchies; the OSI model; encoding of data as signals; error and flow control; medium access; routing; internetworking; transport services; high-level applications.

*Prerequisites:* General prerequisites.

*Degree credit exclusions:* AK/AS/SC/COSC 3211 3.0, AK/AS/SC/COSC 3212 3.0, AK/COSC 3409A 3.0, AK/COSC 3409B 3.0, AS/AK/ITEC 3210 3.0.

**AK/AS/SC/COSC 3221 3.0 Operating System Fundamentals.**

(formerly AK/AS/SC/COSC 3321 3.0 — before Summer 2000) Principles of operating systems. Concurrent processes, CPU scheduling, deadlocks, memory management, file systems, protection and security, and case studies.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 2021 3.0 or AK/COSC 3411 3.0 or AS/AK/ITEC 2021 3.0; AK/AS/SC/COSC 2031 3.0.

*Degree credit exclusions:* AK/AS/SC/COSC 3321 3.0, AK/COSC 3470 3.0.

**AK/AS/SC/COSC 3301 3.0 Programming Language Fundamentals.**

Formal syntax: Backus-Naur form and extensions, syntax diagrams, grammars and parsing; elements of formal language theory; type theory and data structures of algorithmic languages; control structures and their composition. Subprograms: argument-parameter binding mechanisms.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 2001 3.0 or AK/COSC 3431 3.0.

*Degree credit exclusion:* AK/COSC 3420 6.0.

**AK/AS/SC/COSC 3311 3.0 Software Design.** A study of design methods and their use in the correct implementation, maintenance and evolution of software systems. Topics include design, implementation, testing, documentation needs and standards, support tools. Students design and implement components of a software system.

*Prerequisites:* General prerequisites; including AS/SC/AK/MATH 2090 3.0, and AK/AS/SC/COSC 2001 3.0 or AK/COSC 3431 3.0; AK/AS/SC/COSC 2031 3.0.

**AK/AS/SC/COSC 3331 3.0 Object-Oriented Programming and Design.** Introduction to the theoretical and practical methods of object-oriented software construction. Topics include single and multiple inheritance, type hierarchies, polymorphism, operator overloading, class library design, templates, constraint-based programming and contract model of design.

*Prerequisites:* General prerequisites.

*Degree credit exclusions:* AS/SC/COSC 3010A 3.0, AK/COSC 3200B 3.0, AK/COSC 3650 3.0.

**AK/AS/SC/COSC 3341 3.0 Introduction to Program Verification.** (formerly AK/AS/SC/COSC 3111 3.0 — before Summer 2000) Application of logic to programs; weakest precondition; semantics of a simple programming language; correctness; development of correctness proofs from specifications; application to software design; performance bounds; transformation and synthesis.

*Prerequisites:* General prerequisites, including AS/SC/AK/MATH 2090 3.0.

*Degree credit exclusion:* AK/AS/SC/COSC 3111 3.0.

**AK/AS/SC/COSC 3401 3.0 Introduction to Symbolic Computation.** Focuses on the representation of knowledge — facts and rules — in forms other than numbers or text, and on the construction of programs which can exploit such knowledge to solve problems. Functional programming, logic and object-oriented programming techniques are explored in depth.

*Prerequisites:* General prerequisites, including AS/SC/AK/MATH 2090 3.0.

*Degree credit exclusion:* AK/COSC 3551 3.0.

**AK/AS/SC/COSC 3402 3.0 Introduction to Concepts of Artificial Intelligence.** The concept of artificial intelligence. Interpretation of learning and reasoning as computational processes; simulation using logic and inference rules; analysis of the structure of visual scenes; game playing by computer; natural language analysis and synthesis; domain-independent planning and problem solving.

*Prerequisites:* AK/AS/SC/COSC 3401 3.0; AS/SC/AK/MATH 2090 3.0 or AS/SC/AK/MATH 2320 3.0 or AK/MATH 2442 3.0.

*Degree credit exclusion:* AK/COSC 3551 3.0.

**AK/AS/SC/COSC 3408 3.0 Simulation of Discrete Systems.** Introduction to simulating discrete-event systems and queuing problems. Use of probability distributions and random number generation. Model building, testing, use and validation. Application to case studies.

*Prerequisites:* General prerequisites; AS/SC/AK/MATH 2560 3.0.

*Degree credit exclusions:* AK/COSC 3451 3.0, AS/SC/MATH 4930B 3.0.

**AK/AS/SC/COSC 3418 3.0 Simulation of Continuous Systems.** Introduction to dynamic continuous systems. Mathematical representation, numerical solution; stability and error accumulation. Use of general-purpose procedural languages and special-purpose languages. Control systems and feedback loops. Applications to population studies, fluid systems, politico-economic models and other case studies.

*Prerequisites:* General prerequisites; AS/SC/AK/MATH 2560 3.0.

*Degree credit exclusion:* AK/COSC 4071 3.0.

**AK/AS/SC/COSC 3421 3.0 Introduction to Database Systems.** Concepts, approaches and techniques in database management systems (DBMS). Logical model of relational databases. An introduction to relational database design. Other topics such as query languages, crash recovery and concurrency control.

*Cross-listed to:* AS/AK/ITEC 3421 3.0.

*Prerequisite:* AK/AS/SC/COSC 2011 3.0 or AK/COSC 3501 3.0 or AS/AK/ITEC 2011 3.0.

*Degree credit exclusions:* AS/SC/COSC 3412 3.0, AK/COSC 3503 3.0, AS/AK/ITEC 3421 3.0.

**AK/AS/SC/COSC 3461 3.0 User Interfaces.**

This course introduces user interfaces and the tools and mechanisms to create and prototype them. Students work in small groups and learn how to design user interfaces, how to realize them and how to evaluate the end result.

*Cross-listed to:* AS/AK/ITEC 3461 3.0.

*Prerequisite:* AK/AS/SC/COSC 2011 3.0 or AK/AS/SC/COSC 2031 3.0 or AK/COSC 3501 3.0 or AS/AK/ITEC 2011 3.0.

*Degree credit exclusions:* AS/AK/ITEC 3461 3.0. Not open to students who successfully completed AS/SC/COSC 4341 3.0 or AS/SC/COSC 4361 3.0 before Fall 1999.

## 4000-Level Courses

**General Prerequisites.** All 4000-level Computer Science courses require the following general prerequisites, in addition to or including any specifically stated in the course outlines below:

- AK/AS/SC/COSC 2001 3.0 or AK/COSC 3431 3.0;
- AK/AS/SC/COSC 2011 3.0 or AK/COSC 3501 3.0 or AS/AK/ITEC 2011 3.0;
- AK/AS/SC/COSC 2021 3.0 or AK/COSC 3411 3.0 or AS/AK/ITEC 2021 3.0;
- AK/AS/SC/COSC 2031 3.0;

- at least 12 credits in Computer Science at the 3000 level;
- a cumulative grade point average of 4.5 or better over all completed Computer Science courses;
- AS/SC/AK/MATH 2090 3.0.

**SC/COSC 4001 6.0 Space and Communication Sciences Workshop.** This course is intended to allow the student to carry out the development of a specific space project, under the supervision of a faculty member, a government scientist or an industrial associate. The equivalent of nine laboratory hours per week for two terms.

*Cross-listed to:* SC/EATS 4001 6.0, SC/PHYS 4001 6.0.

*Prerequisite:* Satisfactory completion of the 3000-level courses in the Space and Communication Sciences core.

*Degree credit exclusions:* AK/AS/SC/COSC 4080 3.0, SC/EATS 4001 6.0, SC/PHYS 4001 6.0.

**AK/AS/SC/COSC 4010 3.0 Special Topics in Computer Science.** Half courses or seminars on particular topics not otherwise available.

*Prerequisites:* Vary depending on the particular topic, but include at least the general prerequisites.

**AK/AS/SC/COSC 4080 3.0 Computer Science Project.** A project in computer science chosen in consultation with, and supervised by, a member of the department.

*Prerequisites:* General prerequisites; permission of the course director. Normally restricted to students who have taken 36 credits in Computer Science.

*Degree credit exclusion:* SC/COSC 4001 6.0.

**AK/AS/SC/COSC 4101 3.0 Advanced Data Structures.** Amortized and worst-case analysis of data structures. Data structuring paradigms: self-adjustment and persistence. Lists: self-adjustment with the move-to-front heuristic. Search trees: splay trees, finger search trees. Heaps: skew heaps, fibonacci heaps. Union-find trees. Link-and-cut trees. Multidimensional data structures and dynamization.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 3101 3.0 or AK/COSC 3432 3.0.

**AK/AS/SC/COSC 4111 3.0 Automata and Computability.** Introduction to more advanced topics in theoretical foundations of computer science, including the study of formal languages and automata, formal models of computation, and computational complexity measures.

*Prerequisites:* General prerequisites, including AK/AS/SC/COSC 3101 3.0 or AK/COSC 3432 3.0.

*Degree credit exclusion:* AK/COSC 4021 3.0.

**AK/AS/SC/COSC 4201 3.0 Computer Architecture.** The internal structure and design ideas embodied in many computers and the techniques for evaluating them. Fast arithmetic algorithms, memory system designs, pipeline techniques, input-output subsystems and parallel computing structures. Future trends in computer architecture.

*Prerequisites: General prerequisites; including AK/AS/SC/COSC 3201 3.0 or AK/COSC 3411 3.0, and AK/AS/SC/COSC 3221 3.0 or AK/AS/SC/COSC 3321 3.0.*

**AK/AS/SC/COSC 4211 3.0 Performance Evaluation of Computer Systems.** This course introduces the concept of modelling a computer system, using queuing theory techniques and simulation techniques, then it examines the practical applications of these concepts in some case studies. These case studies are chosen to have a practical impact.

*Prerequisites: General prerequisites; including AK/AS/SC/COSC 3211 3.0 or AK/AS/SC/COSC 3213 3.0 or AK/COSC 3409A 3.0, and AK/AS/SC/COSC 3408 3.0 or AK/COSC 3451 3.0.*

**AK/AS/SC/COSC 4213 3.0 Computer Networks II.** This course covers more advanced topics in networking and concentrates on higher-level protocols, security, network programming and applications.

*Prerequisite: AK/AS/SC/COSC 3212 3.0 or AK/AS/SC/COSC 3213 3.0.*

**AK/AS/SC/COSC 4221 3.0 Operating System Design.** (formerly AK/AS/SC/COSC 4321 3.0 — before Summer 2001) An operating system has four major components: process management, input/output, memory management, file system. This project-oriented course puts OS principles into action: design and implementation of components of an OS, interaction with existing system software (using C under Unix).

*Prerequisites: General prerequisites, including AK/AS/SC/COSC 3221 3.0 or AK/AS/SC/COSC 3321 3.0.*

*Degree credit exclusion: AK/AS/SC/COSC 4321 3.0.*

**AK/AS/SC/COSC 4301 3.0 Programming Language Design.** Advanced features of algorithmic languages: modules (packages), exceptions and tasks. A survey of non-algorithmic languages: object-oriented languages, logic programming languages. Introduction to formal semantics. Recent developments in programming language design.

*Prerequisites: General prerequisites, including AK/AS/SC/COSC 3301 3.0 or AK/COSC 3420 6.0.*

**AK/AS/SC/COSC 4302 3.0 Compilers and Interpreters.** Principles and design techniques for compilers and interpreters. Compiler organization, compiler writing tools, scanning, parsing, semantic analysis, run-time storage organization, memory management, code generation and optimization. Students implement a substantial portion of a compiler in a project.

*Prerequisites: General prerequisites; AK/AS/SC/COSC 3301 3.0 is recommended.*

*Degree credit exclusion: AK/COSC 3420 6.0.*

**AK/AS/SC/COSC 4311 3.0 System Development.** A study of concurrency and communication in system development. Specification, design and implementation of computer systems which continuously interact

with other systems. Topics may include object-oriented modelling, formal specification languages, CASE tools.

*Prerequisites: General prerequisites, including AK/AS/SC/COSC 3221 3.0 or AK/AS/SC/COSC 3311 3.0 or AK/AS/SC/COSC 3321 3.0.*

**AK/AS/SC/COSC 4351 3.0 Real-Time Systems Theory.** Specification and verification techniques for real-time systems with many interacting components. Formal design of real-time systems using (a) programming languages with unambiguous semantics of time-related behaviour and (b) scheduling algorithms.

*Prerequisites: General prerequisites; including one of AK/AS/SC/COSC 3111 3.0, AK/AS/SC/COSC 3221 3.0, AK/AS/SC/COSC 3311 3.0, AK/AS/SC/COSC 3321 3.0, AK/AS/SC/COSC 3341 3.0.*

**AK/AS/SC/COSC 4352 3.0 Real-Time Systems Practice.** Introduction to the correct use and applications of real-time programming languages. Examples of real-time programming languages are studied in detail and applied to the solution of typical real-time programming problems (e.g. communication networks, avionic systems and process control).

*Prerequisites: General prerequisites; including one of AK/AS/SC/COSC 3221 3.0, AK/AS/SC/COSC 3301 3.0, AK/AS/SC/COSC 3311 3.0, AK/AS/SC/COSC 3321 3.0, AK/COSC 3420 6.0.*

**AK/AS/SC/COSC 4401 3.0 Artificial Intelligence.** Introduction to the main ideas of current machine learning research: induction, abduction, deduction; learning from examples and formal models, Bayes' rule, Solomonoff's idea, Gold paradigm, Valiant model of learning, Rissanen's minimum description length principle; distribution free and unsupervised learning.

*Prerequisites: General prerequisites, including AK/AS/SC/COSC 3402 3.0 or AK/COSC 3551 3.0.*

**AK/AS/SC/COSC 4402 3.0 Logic Programming.** This course is an introduction to fundamental concepts of logic programming and logic programming languages. In the course, the logic programming language PROLOG is discussed and programming techniques and applications are studied.

*Prerequisites: General prerequisites; including AK/AS/SC/COSC 3401 3.0 and one of AK/AS/SC/COSC 3101 3.0, AK/AS/SC/COSC 3111 3.0, AK/AS/SC/COSC 3341 3.0, AK/COSC 3432 3.0.*

**AK/AS/SC/COSC 4411 3.0 Database Management Systems.** A study of principles of database management systems. A thorough analysis of theory of normal, relational algebra and calculus and query languages based on these concepts. Other topics: security and integrity issues, concurrency control, distributed systems, query optimization.

*Prerequisites: General prerequisites; including one of AS/SC/COSC 3412 3.0, AK/AS/SC/COSC 3421 3.0, AK/COSC 3503 3.0, AS/AK/ITEC 3421 3.0.*

*Degree credit exclusion: AK/COSC 4442 3.0.*

**AK/AS/SC/COSC 4413 3.0 Building E-Commerce Systems.** Technological infrastructure for electronic commerce on the Internet. Terminology and architectures. Security and cryptography. Content presentation. Web protocols. Adaptive, intelligent agents and data mining. Vertical applications.

*Prerequisites: General prerequisites; including AK/AS/SC/COSC 3212 3.0 or AK/AS/SC/COSC 3213 3.0, AK/AS/SC/COSC 3221 3.0 or AK/AS/SC/COSC 3321 3.0, AK/AS/SC/COSC 3421 3.0.*

*Degree credit exclusion: AS/AK/ITEC 4020 3.0.*

**AK/AS/SC/COSC 4421 3.0 Introduction to Robotics.** An introduction to robot arms and autonomous vehicles. The course covers control and manipulator theory, robot sensors and navigation.

*Prerequisites: General prerequisites; AS/SC/MATH 1025 3.0.*

**AK/AS/SC/COSC 4422 3.0 Computer Vision.** An introductory course in computer vision: high- and low-level vision systems, the measurement and interpretation of visual data, static and dynamic scene analysis.

*Prerequisites: General prerequisites, including AK/AS/SC/COSC 3121 3.0 or AK/COSC 3511 3.0 or AS/SC/MATH 3241 3.0.*

**AK/AS/SC/COSC 4431 3.0 Computer Graphics.** (formerly AK/AS/SC/COSC 4331 3.0 — before Summer 2001) Algorithms for the creation, manipulation and display of objects in an interactive graphical environment.

*Prerequisites: General prerequisites; AS/SC/MATH 1025 3.0.*

*Degree credit exclusions: AK/AS/SC/COSC 4331 3.0, AK/COSC 4409B 3.0.*

**AK/AS/SC/COSC 4441 3.0 Human-Computer Interaction.** (formerly AK/AS/SC/COSC 4341 3.0 — before Summer 2001) This course introduces the concepts and technology necessary to design, manage and implement interactive software. Students work in small groups and learn how to design user interfaces, how to realize them and how to evaluate the end result. Both design and evaluation are emphasized.

*Prerequisites: General prerequisites; AK/AS/SC/COSC 3461 3.0 or AS/AK/ITEC 3461 3.0 is recommended.*

*Degree credit exclusion: AK/AS/SC/COSC 4341 3.0.*

**AK/AS/SC/COSC 4451 3.0 Signals and Systems.** (formerly AK/AS/SC/COSC 4242 3.0 — before Summer 2001) An introduction to the mathematical background in signals and systems required for computer vision and robotics; signal and image processing:



sampling, discrete Fourier transform, filtering; linear system theory; Kalman filtering; feedback.

**Prerequisites:** General prerequisites; AK/AS/SC/COSC 3121 3.0 or AK/COSC 3511 3.0 or AS/SC/MATH 3241 3.0.

**Degree credit exclusions:** AK/AS/SC/COSC 4242 3.0, SC/EATS 4020 3.0, AS/SC/MATH 4130B 3.0, AS/SC/MATH 4830 3.0, SC/PHYS 4060 3.0.

**AK/AS/SC/COSC 4461 3.0 Hypermedia and Multimedia Technology.** (formerly AK/AS/SC/COSC 4361 3.0 — before Summer 2001) Design and application of computer systems which provide information resources for learning, online-help, conceptual exploration, visualization and entertainment; e.g. hypertext/hypermedia, networked information-servers, systems for collaborative work, and "virtual reality". One or two topics are discussed in depth using current research literature. Normally offered in alternate years.

**Prerequisites:** General prerequisites, including AK/AS/SC/COSC 3461 3.0 or AS/AK/ITEC 3461 3.0.

**Degree credit exclusion:** AK/AS/SC/COSC 4361 3.0.

## Creative Writing – Arts

### Program Office:

210 Vanier College, 416-736-5910

### Program Coordinator:

R. Teleky

### Associate Professors:

S. Swan, R. Teleky

The Creative Writing program is an Honours BA program offered by the Faculty of Arts. Students wishing to major in Creative Writing should apply for the Introductory course, AS/HUMA 2900 9.0, at the end of their first year by submitting a portfolio of 10-15 pages of prose-fiction and poetry to 210 Vanier College. Students must successfully complete this course (AS/HUMA 2900 9.0) or have the equivalency before applying for the major. Students may apply for admission to the program at the end of their second year of study and before completion of their first 78 credits.

The primary objective of the program is to give students with the talent and ambition for a career in writing the opportunity to develop their talent and to make it the centre of a program of university study. Two major assumptions inform this program: first, that the capabilities of talent can be increased through training, and second, that the necessary curriculum for aspiring writers consists of the study of language and writing idioms of past and contemporary writers. The program therefore aims in its lower years to acquaint students with the various ways of writing which the leading writers of our time have made possible. In the upper years, the program encourages specialization in one or two genres and aims to expose students to the history of

formal experimentation and growth in particular genres.

Normally, the 42 credit Honours Major in Creative Writing will consist of AS/HUMA 2900 6.0 "Introduction to Creative Writing" in the second year of university study and at least 18 credits in Creative Writing workshops at the 3000 and 4000 levels in the third and fourth year. Normally, 12 of these credits must be at the 3000 level and six credits at the 4000 level. Except in special circumstances, no more than 12 credits in workshop courses should be taken in any one year. Students will complete a 42 credit major by adding to these workshop courses from the list below. (Faculty of Arts legislation requires that, in order to obtain an Honours — 120 credits — BA, students must take a total of at least 18 credits at the 4000-level including at least 12 credits at the 4000-level in each Honours Major). In selecting courses, students are strongly advised to develop a program of study which will allow for transfer to another major subject in one of the departments of Arts or Fine Arts (e.g. English, Theatre).

For specific requirements of degree programs in Creative Writing, please consult the Faculty of Arts "Programs of Study" section. Not all courses will necessarily be offered in any given year; consult the department's supplementary calendar for details of courses to be offered.

### 1. Admission to the Program

a) Students who wish to enter the Creative Writing program as majors are strongly recommended to take one of the following among their first 30 credits.

AS/EN 1200 6.0 Introduction to Literary Genres.

AS/EN 1300 6.0 Aspects of English Literature.

AS/HUMA 1610 9.0 The Art of Writing.

b) Students in either the Faculty of Arts or the Faculty of Fine Arts may enrol in the Creative Writing program. Students may obtain conditional admission to the program by enrolling in AS/HUMA 2900 6.0. (Portfolios of 10 to 15 pages of poetry and prose fiction are required for admission to this course.)

c) Students enrolled in AS/HUMA 2900 9.0 who wish to obtain full admission to the program as majors should submit to their HUMA 2900 9.0 instructor a 15- to 20-page portfolio (of original work in at least two genres) sometime during the second term (preferably before March). Acceptance of this portfolio by the program Committee constitutes full admission of the student as a Creative Writing major.

d) Students may also apply for admission to the program after their first 48 credits (either at York or at another institution) and before completion of their first 78 credits by presenting a 15- to 20-page portfolio as evidence of equivalent writing experience to that provided by AS/HUMA 2900 9.0.

e) **Deadlines:** Students should submit their portfolios as early as possible when applying for full admission to the program. Most admissions to the program will be decided by

June 1, although students may apply as late as September 1.

### 2. Admission to Upper Level Workshop Courses as Non-Majors

Students who wish to apply for admission to one or more of the third-year workshops without becoming majors should submit to their AS/HUMA 2900 9.0 instructor a 15-20 page portfolio of work along with an application form (application forms are available from 261 Vanier College) in the appropriate genre sometime during the second term (preferably before March 19). Acceptance of this portfolio constitutes admission to the workshop when space is available, but does not guarantee admission.

### Departmental and Divisional Courses in Creative Writing

*Note: Not all courses will necessarily be offered in any given year; for details of courses to be offered, consult the program office.*

*Note: For purposes of meeting program requirements, all Foundations courses will count as six credits towards the major.*

Listed below are the workshop courses offered by the Creative Writing program. Students will normally take 24 credits in these workshop courses during their years in the program (although additional workshops are permitted in certain circumstances).

AS/HUMA 2900 9.0 Introduction to Creative Writing (formerly AS/EN 2600 6.0).

*(Portfolios of 10 to 15 pages of poetry and prose fiction are required for admission to this course.)*

FA/FILM 2120 6.0 Introductory Screenwriting.

FA/FILM 3120 6.0 Intermediate Screenwriting.

FA/FILM 4120 6.0 Advanced Screenwriting.

AS/HUMA 3640 6.0 Intermediate Fiction Workshop.\*

AS/HUMA 3645 6.0 Intermediate Poetry Workshop.

AS/HUMA 4630 6.0 Senior Fiction Workshop.\*

AS/HUMA 4630C 6.0 Senior Prose Workshop: Non-Fiction.

AS/HUMA 4640 6.0 Senior Poetry Workshop.\*

FA/THEA 3290 6.0 Playwriting I.

FA/THEA 4290 6.0 Advanced Playwriting and New Play Dramaturgy.

\*Portfolios are required for admission to these courses. Consult the program office.

Listed below are those (non-workshop) approved courses from which Creative Writing students may select their remaining courses; since the normal pattern is 24 credits in workshop and 18 non-workshop credits, students should study the list carefully and choose courses which they feel will most appropriately complement, text, illuminate and focus their own writing.

*Note: This list offers a sense of the spectrum of courses available; alternative courses may, with the approval of the coordinator, be taken in fulfilment of the non-workshop quota.*

AS/EN 1200 6.0 Introduction to Literature.

AS/EN 1300 6.0 Literature and Theory: An Introduction.

AS/EN 2060 6.0 Grammatical Structure of English.



AS/EN 2110 6.0 Introduction to Poetry.  
 AS/EN 2120 6.0 Drama.  
 AS/EN 2330 6.0 Fiction of the US since 1865.  
 AS/EN 2370 6.0 Post-Colonial Literature.  
 AS/EN 2450 6.0 Canadian Literature.  
 AS/EN 2470 6.0 Post Narrative: The Novel from Behn to James.  
 AS/EN 2510 6.0 British and American Poetry and Fiction 1900-1940.  
 AS/EN 2550 6.0 British Novel:1880-1930.  
 AS/EN 2690 6.0 Contemporary Literature.  
 AS/EN 2770 6.0 Modern and Contemporary Drama.  
 AS/EN 3010 6.0 Style and Stylistics.  
 AS/EN 3160 6.0 Special Topics: Modern Canadian Drama.  
 AS/EN 3165 6.0 From Fin-de-Siecle to Modernism.  
 AS/EN 3320 6.0 Poetry of the United States.  
 AS/EN 3340 6.0 Modern Canadian Fiction.  
 AS/EN 3350 6.0 Modern Canadian Poetry.  
 AS/EN 3430A 3.0 Canadian Women Writers.  
 AS/EN 3430D 3.0 Studies in Women Writers: Recent Women Fiction Writers.  
 AS/EN 3440 6.0 Post-Colonial Writing in Canada.  
 AS/EN 4110 6.0 History and Description of the English Language.  
 AS/EN 4140 6.0 Studies in Modern Poetry.  
 AS/EN 4150A 6.0 Recent Irish Fiction.  
 AS/EN 4230D 3.0 Studies in Post-Colonial Literature: Derek Walcott.  
 AS/EN 4230E 3.0 Studies in Post-Colonial Literature: Wole Soyinka.  
 AS/EN 4260 6.0 Studies in the Novel.  
 AS/EN 4270 6.0 Studies in Canadian Literature.  
 AS/HUMA 2610 6.0 Interdisciplinary Perspectives on Literature.  
 AS/HUMA 2640 9.0 Modes of Fantasy.  
 AS/HUMA 2670 9.0 Film and Literature.  
 AS/HUMA 3620 6.0 The Tragic Muse.  
 AS/HUMA 3660 6.0 The Oral Tradition.  
 AS/HUMA 3890 6.0 On Love.  
 AS/HUMA 4000M 6.0 Life Writing.  
 AS/HUMA 4050 6.0 Independent Studies. (Special approval required)  
 AS/HUMA 4610 6.0 Psychology and Literature (Cross-listed to AS/PSYC 4120 6.0).  
 AS/HUMA 4620 6.0 Works and Days: Writers on Their Art and Their Lives.  
 AS/HUMA 4650 6.0 Myth and Mythology.  
 AS/HUMA 4880D 3.0 The Works of Franz Kafka.  
 AS/LING 1000 6.0 Introduction to Linguistics.  
 AS/PHIL 3040 6.0 Aesthetics.

*Note: Language courses (French, German, Latin and more) will normally also be accepted by the program as fulfilling non-workshop requirements. Please consult with your program adviser.*

**Note: For Fine Arts students registered in the program in Creative Writing, all workshop courses in Creative Writing will be credited as Fine Arts courses.**

**For Arts students registered in the program, all Fine Arts courses in Creative Writing will be credited as Arts courses.**

**It should be noted that Glendon College** offers, through its Department of English, a number of courses which are fully accredited by the Creative Writing program for its students on either campus. These are as follows:

GL/EN 2590 6.0 Poetry and Poetics.  
 GL/EN 3260 6.0 Media.

GL/EN 3510 6.0 Literary Stylistics (either this course or AS/EN 3010 6.0).  
 GL/EN 3950 6.0 English-Speaking Theatre in Canada.  
 GL/EN 4250 3.0 Studies in Genres: Canadian Women Playwrights.  
 GL/EN 4270 6.0 20th Century American.  
 GL/EN 4340 6.0 Contemporary Literature (either this course or AS/EN 2690 6.0).  
 GL/EN 4560 6.0 Advanced Writing.

## Dance – Fine Arts

### Department Office:

240 Centre for Fine Arts, 416-736-5137

### Chair of the Department:

P. Reed Doob

### Professor:

P. Reed Doob

### Associate Professors:

A.R. Blewchamp, K. Bowes-Sewell,  
 N. De Shane, N.S. Fisher-Stitt, D. Krasnow,  
 M.E. Manley, S. Odom, H. Small,  
 M.J. Warner

### Assistant Professors:

D. Callison, S. Porter

### Adjunct Professors:

D. Grossman, G. Lum, M. Thakkar

## Programs of Study

The Department of Dance offers a comprehensive education in dance as a performing art leading to either a BA (90 Credit) or BFA Honours (120 Credit) degree. Throughout the program students participate intensively in studio courses involving ballet and modern technique, conditioning for dancers, improvisation, music, composition/choreography, repertory, dance production, pedagogy and body therapies. Special performance opportunities are available through the York Dance Ensemble. Critical, analytical and writing skills are fully developed in the areas of dance studies and dance history, movement analysis, kinesiology and injury prevention, dance writing, dance ethnology and anthropology. The program is enriched by distinguished guest lecturers, master teachers and choreographers, performances, films, workshops and the integration of new technologies. The emphasis in the department is to prepare people for careers and graduate work in dance and other fields.

A placement evaluation is required of all entering students. All incoming students must have had some training in either ballet or modern dance. (See details in Faculty of Fine Arts Evaluations.) Advancement to second, third and fourth level dance technique courses is by juried audition only.

Through the Joint Five-Year NBS/York University diploma degree program students can combine study towards a BFA Honours in Dance with the Teacher Training program at the National Ballet School. Students interested in this joint program will be expected to declare their interest in the first year of study.

Dance majors are eligible to apply for the concurrent program of the Faculty of Education at the end of the first year of study.

A Dance minor program is available for students who are majoring in another discipline in the Faculties of Fine Arts, Arts, Environmental Studies or Pure and Applied Science. The minor requires the equivalent of 30 credits in Dance theory and practice.

## Advanced Standing for the Professional Dancer

The Department of Dance offers professional dancers the opportunity to obtain an undergraduate degree by giving credit for experience gained in a performance career. If you are over 25 years of age and have been a professional dancer for more than five years, you are eligible to apply. Please contact the Dance department for further information.

## Courses in Dance

*Note: Not all courses will be offered in any given year.*

### FA/DANC 1205 2.25 Ballet Technique.

Introductory course in ballet. Emphasizes integrated movement, alignment, classical ballet vocabulary, artistic expression, as well as the creative process. Required of all Dance majors. Five hours.

*Corequisite: FA/DANC 1215 2.25.*

### FA/DANC 1206 2.25 Ballet Technique.

Introductory course in ballet. Emphasizes integrated movement, alignment, classical ballet vocabulary, artistic expression, as well as the creative process. Required of all Dance majors. Five hours.

*Prerequisite: FA/DANC 1205 2.25.*

*Corequisite: FA/DANC 1216 2.25.*

### FA/DANC 1207 2.25 Ballet Technique.

A continuation of work begun in FA/DANC 1205 2.25 in ballet. Emphasizes integrated movement, alignment, classical ballet vocabulary, artistic expression, as well as the creative process. Five hours.

*Note: Open by permission of the department only.*

### FA/DANC 1208 2.25 Ballet Technique.

A continuation of work begun in FA/DANC 1206 2.25 in ballet. Emphasizes integrated movement, alignment, classical ballet vocabulary, artistic expression as well as the creative process. Five hours.

*Note: Open by permission of the department only.*

### FA/DANC 1215 2.25 Modern Technique.

Introductory course in modern dance. Emphasizes integrated movement, alignment, modern dance vocabulary, artistic expression, as well as the creative process. Required of all Dance majors. Five hours.

*Corequisite: FA/DANC 1205 2.25.*

**FA/DANC 1216 2.25 Modern Technique.** Introductory course in modern dance. Emphasizes integrated movement, alignment, modern dance vocabulary, artistic expression, as well as the creative process. Required of all Dance majors. Five hours.

*Prerequisite:* FA/DANC 1215 2.25.

*Corequisite:* FA/DANC 1206 2.25.

**FA/DANC 1217 2.25 Modern Technique.** A continuation of work begun in FA/DANC 1215 2.25 in modern dance. Emphasizes integrated movement, alignment, modern dance vocabulary, artistic expression, as well as the creative process. Five hours.

*Note:* Open by permission of the department only.

**FA/DANC 1218 2.25 Modern Technique.** A continuation of work begun in FA/DANC 1216 2.25 in modern dance. Emphasizes integrated movement, alignment, modern dance vocabulary, artistic expression, as well as the creative process. Five hours.

*Note:* Open by permission of the department only.

**FA/DANC 1220 1.5 Improvisation.** An introduction to theory and practice in improvisation with a focus on the creative process in dance. Required of all Dance majors. Open only to Dance majors and minors. Three hours.

*Corequisite:* Enrolment in dance technique.

**FA/DANC 1270 3.0 Dance Production.** An introduction to the fundamentals of lighting design and stagecraft for dance, this course is taught with FA/THEA 1100 3.0 Stagecraft I. Lighting design, costume design, stage management, sound, front of house management or publicity may be covered. Course includes crew work on department productions. Theatre majors and Dance majors attend the same lecture and separate labs. Required of all Dance majors. Open only to Dance majors and minors. Three hour lecture or lab each term.

*Degree credit exclusions:* FA/THEA 1100 3.0, FA/THEA 1100 6.0, FA/THEA 1510 3.0.

**FA/DANC 1320 1.5 Conditioning for Dancers.** A practical introduction to the fundamentals of physical conditioning for dancers. Injury prevention will be emphasized through applications of imagery, release, alignment, stretch and strength techniques, and movement re-education. Required of all first year Dance majors. Open only to Dance majors and minors. Three hours.

*Corequisite:* Enrolment in dance technique.

**FA/DANC 1340 3.0 Introduction to Dance Studies.** An exploration of contemporary themes and issues in dance using current approaches to research and theory. Required of all Dance majors. Four hours.

*Note:* Open to non-majors with departmental permission.

**FA/DANC 1500 6.0 The Dance Experience (Lecture/Studio).** Studio and theoretical work in a variety of movement techniques especially designed for the non-major student. Not open to Dance majors. Two hours studio, one and one-half hours lecture.

*Note:* May include improvisations, presentation of individual or group projects, reading, films, guest speakers and attendance at live performances. Audition not required.

**FA/DANC 2205 2.25 Ballet Technique.** Ballet technique for Dance majors. Ongoing training develops artistic expression, classical ballet vocabulary, musicality and performance skills. Required of all Dance majors. Five hours.

*Prerequisite:* FA/DANC 1206 2.25 and permission of the department. Admission is by juried audition.

*Corequisite:* FA/DANC 2215 2.25.

**FA/DANC 2206 2.25 Ballet Technique.** Ballet technique for Dance majors. Ongoing training develops artistic expression, classical ballet vocabulary, musicality and performance skills. Required of all Dance majors. Five hours.

*Prerequisite:* FA/DANC 2205 2.25.

*Corequisite:* FA/DANC 2216 2.25.

**FA/DANC 2207 2.25 Ballet Technique.** A continuation of work begun in FA/DANC 2205 2.25. Ongoing training in ballet to develop artistic expression, classical ballet vocabulary, musicality and performance skills. Five hours.

*Note:* Open by permission of the department only.

**FA/DANC 2208 2.25 Ballet Technique.** A continuation of work begun in FA/DANC 2206 2.25. Ongoing training in ballet to develop artistic expression, classical ballet vocabulary, musicality and performance skills. Five hours.

*Note:* Open by permission of the department only.

**FA/DANC 2215 2.25 Modern Technique.** Modern dance technique for Dance majors. Ongoing training develops artistic expression, modern dance vocabulary, musicality and performance skills. Required of all Dance majors. Five hours.

*Prerequisite:* FA/DANC 1216 2.25 and permission of the department. Admission is by juried audition.

*Corequisite:* FA/DANC 2205 2.25.

**FA/DANC 2216 2.25 Modern Technique.** Modern dance technique for Dance majors. Ongoing training develops artistic expression, modern dance vocabulary, musicality and performance skills. Required of all Dance majors. Five hours.

*Prerequisite:* FA/DANC 2215 2.25.

*Corequisite:* FA/DANC 2206 2.25.

**FA/DANC 2217 2.25 Modern Technique.** A continuation of work begun in FA/DANC 2215 2.25. Ongoing training in "modern" to develop artistic expression, modern dance vocabulary, musicality and performance skills. Five hours.

*Note:* Open by permission of the department only.

**FA/DANC 2218 2.25 Modern Technique.** A continuation of work begun in FA/DANC 2216 2.25. Ongoing training in "modern" to develop artistic expression, modern dance vocabulary, musicality and performance skills. Five hours.

*Note:* Open by permission of the department only.

**FA/DANC 2225 3.0 Dance Composition I.** Introductory study of the basic principles of dance composition; both practical movement studies and analytic/critical work will be employed to explore the creative process and to begin to develop the craft and skills of choreography. Required of all Dance majors. Four and one-half hours.

*Prerequisite:* FA/DANC 1205 2.25, FA/DANC 1206 2.25, FA/DANC 1215 2.25 and FA/DANC 1216 2.25.

*Corequisite:* Current enrolment in dance technique.

**FA/DANC 2226 3.0 Dance Composition II.** Further study of the basic principles of dance composition; development of studies toward completed works and examination of production and performance as it relates to choreography. Continued analytic/critical work of choreographed dances. Four and one-half hours.

*Prerequisite:* FA/DANC 2225 3.0.

*Corequisite:* Current enrolment in dance technique.

**FA/DANC 2320 1.5 Dance Kinesiology.** An introduction to the field of dance kinesiology and the analysis of movement from a scientific perspective. Correct and efficient movement patterns for dance technique are discussed through the examination of the muscular/skeletal system and its functions. Study includes identification of common muscle imbalances that impede good alignment and the optimal execution of dance technique. Required of all Dance majors. Open only to Dance majors. One hour per week, both fall and winter.

*Prerequisites:* FA/DANC 1206 2.25, FA/DANC 1216 2.25 and FA/DANC 1320 1.5.

*Corequisite:* Enrolment in dance technique.

*Prerequisite or corequisite:* SC/NATS 1620 6.0 or SC/NATS 1650 6.0.

**FA/DANC 2340 3.0 Dance History.** An examination of the religious, social, cultural, political and performative functions of dance in western and non-western history. Required of all Dance majors. Four hours.

*Note:* Open to non-majors with departmental permission.

**FA/DANC 2355 3.0 Music for Dancers I.** Combined theoretical studies and studio work which emphasize an integrated approach to music and dance. Development of skills relating to rhythm, music notation, musical form and style,

through movement and library projects, and listening assignments. Required of all Dance majors. Open to non-Dance majors by permission of the course director. Three hours.

**FA/DANC 2356 3.0 Music for Dancers II.** Continuing theoretical studies and studio work in music for dancers, which emphasize an integrated approach to music and dance. The course works on the development of skills relating to complex rhythms, melody, vocalization and music notation. Lectures, group exercises, demonstrations, and listening and movement assignments. Not open to Music majors. Three hours.

*Prerequisite:* FA/DANC 2355 3.0 or permission of the course director.

**FA/DANC 2360 3.0 Movement Analysis I.** A first course in the theory and practice of movement analysis focusing on the Laban Notation system and/or effort/shape analysis. Emphasis on developing reading and observation skills. Required of all Dance majors. Three hours.

*Prerequisite/corequisite:* FA/DANC 2355 3.0.

*Degree credit exclusions:* FA/DANC 3360 3.0 and FA/DANC 3365 3.0.

**FA/DANC 2390 3.0, FA/DANC 2392 6.0 Special Options.** A half- or full-year studies course at the second-year level, concentrating on dance activity of a specified period or genre. Topics are announced in the spring. This course may be offered in an intensive or standard format.

**FA/DANC 3205 1.5 Ballet Technique.** Ballet technique for Dance majors. Ongoing training develops artistic expression, classical ballet vocabulary, musicality and athleticism. Required of all Dance majors. Four hours.

*Prerequisite:* FA/DANC 2206 2.25 and permission of the department. Admission is by juried audition.

*Corequisite:* FA/DANC 3215 3.0.

**FA/DANC 3206 1.5 Ballet Technique.** Ballet technique for Dance majors. Ongoing training develops artistic expression, classical ballet vocabulary, musicality and athleticism. Required of all Dance majors. Four hours.

*Prerequisite:* FA/DANC 3205 1.5.

*Corequisite:* FA/DANC 3216 3.0.

**FA/DANC 3207 1.5 Ballet Technique.** A continuation of work begun in FA/DANC 3205 1.5. Ongoing training in ballet to develop artistic expression, classical ballet vocabulary, musicality and athleticism. Four hours.

*Note:* Open by permission of the department only.

**FA/DANC 3208 1.5 Ballet Technique.** A continuation of work begun in FA/DANC 3206 1.5. Ongoing training in ballet to develop artistic expression, classical ballet vocabulary, musicality and athleticism. Four hours.

*Note:* Open by permission of the department only.

**FA/DANC 3215 3.0 Modern Technique.** Modern dance technique for Dance majors. Ongoing training develops artistic expression, modern dance vocabulary, musicality and athleticism. Required of all Dance majors. Six hours.

*Prerequisite:* FA/DANC 2216 2.25 and permission of the department. Admission is by juried audition.

*Corequisite:* FA/DANC 3205 1.5.

**FA/DANC 3216 3.0 Modern Technique.** Modern dance technique for Dance majors. Ongoing training develops artistic expression, modern dance vocabulary, musicality and athleticism. Required of all Dance majors. Six hours.

*Prerequisite:* FA/DANC 3215 3.0.

*Corequisite:* FA/DANC 3206 1.5.

**FA/DANC 3217 3.0 Modern Technique.** A continuation of work begun in FA/DANC 3215 3.0. Ongoing training in "modern" to develop artistic expression, modern dance vocabulary, musicality and athleticism. Six hours.

*Note:* Open by permission of the department only.

**FA/DANC 3218 3.0 Modern Technique.** A continuation of work begun in FA/DANC 3216 3.0. Ongoing training in "modern" to develop artistic expression, modern dance vocabulary, musicality and athleticism. Six hours.

*Note:* Open by permission of the department only.

**FA/DANC 3220 3.0 Choreography.**

Selected projects in choreography with continued work in structure and forms, and an increased focus on development of individual interests and style. Continued work in production, performance and criticism as related to choreography. Four and one-half hours.

*Prerequisite:* FA/DANC 2226 3.0 and permission of the Dance Department.

*Corequisite:* Current enrolment in dance technique.

**FA/DANC 3235 3.0 Repertory/Reconstruction I.** The first course in the study and performance of original or reconstructed choreographic works in a rehearsal and presentation setting. Rehearsal time outside of the course meetings will be scheduled close to performance dates. Four and one-half hours.

*Corequisite:* Current enrolment in dance technique.

**FA/DANC 3236 3.0 Repertory/Reconstruction II.** The second course in the study and performance of original or reconstructed choreographic works in a pre-professional rehearsal and presentation setting. The course provides opportunity to work closely with an experienced choreographer or recreator and to bring the work to a performance level. Rehearsals

outside of the course meetings will be scheduled close to performance dates. Four and one-half hours.

*Corequisite:* Current enrolment in dance technique.

**FA/DANC 3240 3.0 Dance Ensemble Apprenticeship.** An enriched performance/production experience for highly motivated third year Dance majors wishing to concentrate on the performance and/or production areas. Students are required to commit to an intensive schedule, including evening rehearsals and out-of-town performances. Ensemble apprentices will focus on one or more aspects of dance company activity, which include performance, choreography, tour management, production support and publicity. Students in FA/DANC 3240 are expected to continue with FA/DANC 4245/4246 Dance Ensemble in the following year. Admission is by juried audition. A minimum of six hours/week, both Fall and Winter terms.

*Corequisites:* Performers must be enrolled in FA/DANC 3205 1.5, FA/DANC 3206 1.5, FA/DANC 3215 3.0 and FA/DANC 3216 3.0.

**FA/DANC 3320 3.0 Body Therapy.** Experiential and theoretical study of selected body therapies and approaches to movement re-education, such as Bartenieff Fundamentals, Alexander Technique, Feldenkrais Movement Awareness, Ideokinesis and Pilates-based exercise. Lectures/studio, projects, demonstrations. Four hours.

*Prerequisite:* SC/NATS 1620 6.0 or SC/NATS 1650 6.0.

**FA/DANC 3321 3.0 Prevention and Care of Dance Injuries.** An examination of prevention, recognition and treatment of dance injuries. Specific study of proper vs. improper technique and its correlation to resultant injuries. Follow-up remedial procedures and therapeutic modalities to enhance healing are also studied. Required of all upper-level Dance majors. Two hours per week, both fall and winter.

*Prerequisites:* SC/NATS 1620 6.0 or SC/NATS 1650 6.0 and FA/DANC 2320 1.5.

**FA/DANC 3330 3.0 Dance Mosaic (Lecture/Studio).** This course examines dance as a human phenomenon that both reflects and shapes culture. Through readings, films, lectures, discussions and guest artists, students are introduced to a variety of dance forms from different traditions. The course examines the place of dance in its own cultural setting as well as approaching issues facing dance in a multi-ethnic society. Required of all Dance majors. Open to non-majors. Two hours lecture, one hour lab.

*Degree credit exclusions:* FA/DANC 2390 3.0 taken in 1991-1992 or 1993-1994, FA/DANC 3390 3.0 taken in 1994-1995, FA/DANC 2330 3.0 taken in 1995-1996.

### **FA/DANC 3370 3.0 Dance Pedagogy.**

Methods and materials associated with teaching dance technique to the adolescent and the adult. The lecture/studio portion of the course is augmented by assisting or observing a series of dance classes. Four hours plus practicum.

*Prerequisite:* SC/NATS 1620 6.0 or SC/NATS 1650 6.0.

*Degree credit exclusion:* ED/DANC 3050 3.0.

**FA/DANC 3380 3.0 Dance Therapy.** An introduction for the upper-level student to the professional field of dance therapy. The intention is to develop a basic understanding of the interrelationship between psychological states and their body expression. Lecture/demonstrations, in-class presentations and a clinical tour. Three hours.

*Prerequisites:* AS/PSYC 1010 6.0, or AS/PSYC 2110 3.0, or AS/PSYC 2130 3.0 or permission of the course director.

**FA/DANC 4205 1.5 Ballet Technique.** Ballet technique for Dance majors. Ongoing training refines artistic expression classical ballet vocabulary, musicality and athleticism. Optional for all Dance majors. Four hours.

*Prerequisite:* FA/DANC 3206 1.5 and permission of the department. Admission is by juried audition.

**FA/DANC 4206 1.5 Ballet Technique.** Ballet technique for Dance majors. Ongoing training refines artistic expression, classical ballet vocabulary, musicality and athleticism. Optional for all Dance majors. Four hours.

*Prerequisite:* FA/DANC 4205 1.5.

**FA/DANC 4207 1.5 Ballet Technique.** A continuation of work begun in FA/DANC 4205 1.5. Ongoing training in ballet to refine artistic expression, classical ballet vocabulary, musicality and athleticism. Four hours.

*Note:* Open by permission of the department only.

**FA/DANC 4208 1.5 Ballet Technique.** A continuation of work begun in FA/DANC 4206 1.5. Ongoing training in ballet to refine artistic expression, classical ballet vocabulary, musicality and athleticism. Four hours.

*Note:* Open by permission of the department only.

**FA/DANC 4215 3.0 Modern Technique.** Modern dance technique for Dance majors. Ongoing training refines artistic expression, modern dance vocabulary, musicality and athleticism. Optional for all Dance majors. Six hours.

*Prerequisites:* FA/DANC 3216 3.0 and permission of the department. Admission is by juried audition.

**FA/DANC 4216 3.0 Modern Technique.** Modern dance technique for Dance majors. Ongoing training refines artistic expression, modern dance vocabulary, musicality and athleticism. Optional for all Dance majors. Six hours.

*Prerequisites:* FA/DANC 4215 3.0.

**FA/DANC 4217 3.0 Modern Technique.** A continuation of work begun in FA/DANC 4215 3.0. Ongoing training in "modern" to refine artistic expression, modern dance vocabulary, musicality and athleticism. Six hours.

*Note:* Open by permission of the department only.

**FA/DANC 4218 3.0 Modern Technique.** A continuation of work begun in FA/DANC 4216 3.0. Ongoing training in "modern" to refine artistic expression, modern dance vocabulary, musicality and athleticism. Six hours.

*Note:* Open by permission of the department only.

**FA/DANC 4220 3.0 Choreography.** Selected projects in choreography with an emphasis on interdisciplinary productions and continued work on structure and form. Increased focus on the development of individual interests and style in choreography. Designed for highly motivated creative individuals. The course requires students to commit themselves to pre-performance and performance schedules related to productions of their work. Lectures/presentations/performance. Four and one-half hours.

*Prerequisite:* For Dance majors, FA/DANC 2226 3.0 and permission of the Dance Department. This course is open to other qualified third or fourth year Fine Arts students by permission of the course director only.

*Corequisite:* For Dance majors, current enrolment in dance technique.

**FA/DANC 4245 3.0 Dance Ensemble I.** An enriched performance/production experience for highly motivated upper-level Dance majors wishing to concentrate on the performance and/or production areas. Students are required to commit to an intensive schedule, including evening rehearsals and out-of-town performances. Ensemble members will focus on one or more aspects of dance company activity, which include performance, choreography, tour management, production support and publicity. This course may be repeated for credit by permission of the course director. Students in FA/DANC 4245 3.0 are expected to continue with FA/DANC 4246 3.0. Admission is by juried audition. Open to other Fine Arts majors by permission of the course director. Due to the heavy rehearsal schedule, there is a minimum of 12 hours/week.

*Corequisite:* Performers must be enrolled in FA/DANC 4205 1.5 Ballet Technique and FA/DANC 4215 3.0 Modern Technique.

**FA/DANC 4246 3.0 Dance Ensemble II.** The continuation of FA/DANC 4245 3.0, an enriched performance/production experience for highly motivated upper-level Dance majors wishing to concentrate on the performance and/or production areas. Students are required to commit to an intensive schedule, including evening rehearsals and possible out-of-town performances. Ensemble members will focus on one or more aspects of dance company activity, which include performance,

choreography, tour management, production support and publicity. This course may be repeated for credit, by permission of the course director. Due to the heavy rehearsal schedule, there is a minimum of 12 hours/week.

*Prerequisite:* FA/DANC 4245 3.0.

*Corequisite:* Performers must be enrolled in FA/DANC 4206 1.5 Ballet Technique and FA/DANC 4216 3.0 Modern Technique.

**FA/DANC 4250 3.0, FA/DANC 4251 3.0, FA/DANC 4252 6.0 Special Projects.** Fourth-year studio courses designed to provide students with an opportunity to reconstruct excerpts of established repertoire or to work on new compositions. Projects are announced in the spring. This course may be offered in an intensive or standard format.

*Note:* Open to qualified students by permission of the course director.

**FA/DANC 4280 3.0 Jazz Dance.** Introduction and practice of jazz dance technique which reflects North American culture. Styles of jazz dance that may be covered are Broadway, funk, street, lyrical and theatre dance. A theoretical component will involve the study of historical and cultural aspects of the North American jazz dance vernacular. Open to non-majors by permission of the instructor. Four hours.

*Prerequisites:* FA/DANC 1205 2.25, FA/DANC 1206 2.25, FA/DANC 1215 2.25, FA/DANC 1216 2.25 and FA/DANC 1340 3.0.

*Degree credit exclusions:* FA/DANC 4390 3.0 or FA/DANC 4390A 3.0 *Special Options:* Jazz Dance.

**FA/DANC 4285 3.0 Indian Dance I.** An introduction to the practice and theory of Classical East Indian dance with reference to various styles. The course presents an integrated approach to rhythmic and movements of Indian Dance for those with previous movement training. Open to non-majors with permission of the course director. Four hours studio lab/lecture per week.

*Prerequisites:* FA/DANC 1206 2.25 and FA/DANC 1216 2.25 or prior training in a classical Indian music or dance form and permission of the course director.

*Degree credit exclusion:* FA/DANC 4390C 3.0.

**FA/DANC 4310 3.0 Dance Writing.** This seminar focuses on reading selected historical and contemporary writing about dance, and it provides practical experience in critical, journalistic and promotional writing. Three hours.

*Prerequisites:* FA/DANC 1340 3.0, FA/DANC 2340 3.0 or equivalents.

*Note:* Open to non-majors with permission of the course director.

**FA/DANC 4330 3.0 Anthropology of Dance in Canada.** A survey of classical, folk, tribal and social dance traditions within the Canadian cultural context. Open to non-majors. Four hours.

*Prerequisite:* FA/DANC 3330 3.0 or equivalent, and third or fourth year standing, or permission of the course director.

**FA/DANC 4340 3.0 Topics in Historical or Cultural Dance Style.** Practical and theoretical studies in historical or cultural dance style from a historical or ethnological perspective. The study of style in movement as it reflects a culture or a period of history is a central issue in dance scholarship. Methodologies of describing, recording and interpreting movement patterns in context are emphasized. Topics are announced each year in the spring. Open to non-majors. Four hours.

*Prerequisite:* FA/DANC 3330 3.0 or equivalent, and third- or fourth-year standing, or permission of the course director.

**FA/DANC 4345 3.0 Canadian Dance History.** An investigation of selected periods, people, cultural, social and political events in the development of Canadian dance during the 19th and 20th centuries.

*Prerequisites:* FA/DANC 2340 3.0, and third or fourth-year standing, or permission of the course director.

**FA/DANC 4360 3.0 Movement Analysis II.** This course concentrates on developing a good reading knowledge and vocabulary expansion at intermediate and advanced levels. Readings are undertaken in various dance styles. Writing exercises emphasize analysis of movement. Three hours.

*Prerequisite:* FA/DANC 2360 3.0 or FA/DANC 3360 3.0 or FA/DANC 3365 3.0.

**FA/DANC 4370 1.5 Mentoring Practicum.** A course for fourth year dance majors designed to develop practical teaching skills through mentoring and coaching entering students in the Department of Dance. Students create and implement individual programs through observation, analysis and communication. Required of all Dance majors. Open only to Dance majors. Two hours.

*Prerequisites:* FA/DANC 3205 1.5, FA/DANC 3206 1.5, FA/DANC 3215 3.0, FA/DANC 3216 3.0, FA/DANC 3321 3.0 and FA/DANC 3320 3.0 or FA/DANC 3370 3.0.

*Corequisite:* Current enrolment in dance technique.

**FA/DANC 4375 3.0 Dance and the Child I.** Theories, tools and applications for teaching dance to children (ages 3-6). Three hours lecture/studio, two hours practicum.

*Prerequisites:* FA/DANC 2206 2.25, FA/DANC 2216 2.25 and AS/PSYC 2110 3.0 or AS/PSYC 3410 3.0, or permission of the course director.

**FA/DANC 4376 3.0 Dance and the Child II.** Theories, tools and applications for teaching dance to children (ages 7-12). Three hours lecture/studio, two hours practicum.

*Prerequisites:* FA/DANC 2206 2.25, FA DANC 2216 2.25 and AS/PSYC 2110 3.0 or AS/PSYC 3410 3.0, or permission of the course director.

**FA/DANC 4390 3.0, FA/DANC 4391 3.0, FA/DANC 4392 6.0 Special Options.** Fourth-year studies or studio courses concentrating on dance activity of a specified period or genre. Topics are announced in the Lecture Schedule. May be offered in an intensive or standard format.

*Note:* Open to qualified students by permission of the course director.

**FA/DANC 4400 3.0 Senior Projects.** This course provides fourth-year students with the opportunity to pursue individual fields of study not provided by the regular curriculum. Projects may consist of research on a topic of interest (theoretical or creative), or an internship with an external organization.

*Prerequisite:* Fourth-year standing.

**FA/DANC 4401 3.0, FA/DANC 4402 6.0 Independent Studies.** A study program for highly motivated students; this course gives the individual an opportunity to pursue a specific and intensive personal study in an area in which regular courses are not available.

*Note:* Open by application to the Department of Dance.

## Design – Fine Arts at York, Sheridan College

**Department of Design, York University:**  
283 Winters College, 416-736-5885

**Chair of the Department:**

D. Newgren

**Professor Emeritus:**

A. Tomcik

**Associate Professors:**

D. Newgren, D. Scadding

**Assistant Professors:**

W. Janczak, C-K. J. Peng

**Department of Design, Sheridan College:**

A100 Sheridan-Trafalgar, 905-845-9430, ext. 2579

**Associate Dean:**

M. Large

**Design Program Coordinator:**

B. Tsang

**Professors:**

I. Li, M. A. Maruska, E. Naus, B. Ross

## Program of Study

The Honours Bachelor of Design program, which provides a professional education in a humanistic context, is jointly run by the design departments of York University and Sheridan College. Students in the joint Bachelor of Design Honours program enrol in courses at both institutions. The Design degree (the first in Ontario) replaces the former Bachelor of Fine Arts – Design Stream offered by the Visual Arts Department at York University and the Diploma in Graphic Design offered by Sheridan College. The joint program offers a comprehensive, intensive and professional education in communication design and a curriculum that reflects the distinct theoretical, research and practicum focus and needs of the design profession and the emerging standards

of the Registered Graphic Designers of Ontario. Students in the program benefit from small studio/practicum classes, design studies classes and an internship program. The design practicum courses focus on three major areas of design: Communications, Information and Interactive/Multimedia Design; the Design courses provide an integrated approach to design history, research and theory, design management and critical issues in design.

For information on supplementary evaluation requirements and program requirements, please refer to the Faculty of Fine Arts section of this Calendar.

## Courses in Design

**FA/YSDN 1001 3.0 Visual Language.** The elements and principles of design comprising our visual language are examined and explored on the two-dimensional level through various exercises and projects. This operational form language is developed via tactile and computer application processes. Required course for Design major.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply. Students should have basic computer literacy skills as defined by the Faculty of Fine Arts.

**FA/YSDN 1002 3.0 Design and Image.** The processes of creating representational, graphic and abstract images in the context of visual communication design is examined. Different methods of generating and manipulating images are investigated with consideration given to form and content of images as well as to their potential for the communication of ideas. Required course for Design major.

*Prerequisite:* FA/YSDN 1001 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply. Students should have basic computer literacy skills as defined by the Faculty of Fine Arts.

**FA/YSDN 1003 3.0 3D Design.** The elements and principles of three-dimensional design are examined and applied through various exercises and projects. Communication of three-dimensional concepts through two-dimensional representations and three-dimensional prototypes is introduced and developed.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply. Available to non-majors by permission of the Department of Design. Students should have basic computer literacy skills as defined by the Faculty of Fine Arts.

**FA/YSDN 1004 3.0 Design and Colour.** Colour perception, systems or classification and the nature of light, pigment and colour materials are studied through a series of tactile and computer exercises and projects. The

creative use of colour using a variety of materials and processes and the use of colour in various periods is investigated.

*Note: Available to non-majors by permission of the Department of Design. For students not in the BDes program, compulsory and voluntary supplemental fees apply. Students should have basic computer literacy skills as defined by the Faculty of Fine Arts.*

**FA/YSDN 1005 3.0 Typography 1.** An introduction to the history and development of letters, letterforms and the typography system as practiced in contemporary print and electronic design. The typographic vocabulary, system of measurement, prioritization of information and issues of readability and legibility are introduced. Required course for Design major.

*Prerequisite: FA/YSDN 1001 3.0 or permission of the Department of Design.*

*Degree credit exclusion: FA/YSDN 2002 3.0.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 1009 3.0/1009 6.0 Design Options – Practicum.** In any given year, one or more courses involving traditional and non-traditional approaches to the practice of design may be offered by the Department of Design. Information on selected topics is available in the Department of Design handbook.

*Prerequisites: Specific course(s) as listed in the Department of Design handbook (if applicable) and/or permission of the Department of Design.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 1101 3.0 Critical Issues in Design.** An introduction to the cultural, practical, technological and contextual issues facing designers today by examining works and readings from our day in the various fields of Design. Required course for Design major.

*Note: Available to non-majors by permission of the Department of Design. For students not in the BDes program, compulsory and voluntary supplemental fees apply. Students should have basic computer literacy skills as defined by the Faculty of Fine Arts.*

**FA/YSDN 1109 3.0/1109 6.0 Design Options - Studies.** In any given year, one or more courses involving theory and/or history of design may be offered by the Department of Design. Information on selected topics is available in the Department of Design handbook.

*Prerequisites: Specific course(s) as listed in the handbook (if applicable) and/or permission of the Department of Design.*

**FA/YSDN 2001 3.0/2001 6.0 Design Options — Practicum.** In any given year, one or more courses involving traditional and non-traditional approaches to the practice of design

may be offered by the Department of Design. Information on selected topics is available in the Department of Design handbook.

*Prerequisites: Specific course(s) as listed in the handbook (if applicable) and/or permission of the Department of Design.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 2003 3.0 Typography 2.** A further investigation into the history, principles and application of contemporary typographic systems and issues of readability and legibility in print and electronic communication design. Required course for Design major.

*Prerequisite: FA/YSDN 1005 3.0 (formerly FA/YSDN 2002 3.0), or permission of the Department of Design.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 2004 3.0 Communication Design 1.** This practicum course concentrates on building skills in two-dimensional visual communication design. Various communication and learning theories are integrated into the design process assisting students to develop a multi-disciplined approach to design. Required course for Design major.

*Prerequisite: FA/YSDN 1001 3.0, FA/YSDN 1002 3.0 and FA/YSDN 1005 3.0 or permission of the Department of Design.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 2005 3.0 Design and Systems 1.** The introduction of a general system model to provide a theoretical foundation for systematic solving of design problems is developed. Research analysis, synthesis and evaluation processes with related methods are employed to develop electronic-based communications. Required course for Design major.

*Prerequisite: FA/YSDN 1001 3.0 and FA/YSDN 1002 3.0 or permission of the Department of Design.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 2006 3.0 Design and Perception.** An examination of the perception of visual information and communication on three distinct levels: representational, symbolic and abstract. Visual concepts of proximity, similarity and figure/ground relationships are examined. Introduction to basic communication models, perception theories and symbiotics provide a theoretical foundation for the studio problems.

*Prerequisite: FA/YSDN 1001 3.0 and FA/YSDN 1002 3.0 or permission of the course director.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 2007 3.0 Typography 3.** A continued in-depth investigation into contemporary explorations and applications of typographic principles, information theories, history and various approaches to solving visual communication problems. Letterpress printing and digital processes are investigated. Required course for Design major.

*Prerequisites: FA/YSDN 1005 3.0 and FA/YSDN 2003 3.0 or permission of the Department of Design.*

*Degree credit exclusion: FA/YSDN 3002 3.0.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 2101 3.0 Design Options: Studies.** In any given year, one or more courses involving the theory and/or history of design may be offered. Information on selected topics is available in the Department of Design handbook.

*Prerequisites: Specific course(s) as listed in the Department of Design handbook (if applicable) and/or permission of the Department of Design.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 2102 6.0 History of Design.** Functional objects, past and present, and their relationship to the process of design, conditions of the time, the problems met, important influences and the importance to our time are examined. The primary focus is from the industrial revolution to today with required reading and much critical looking at our own environment. Required course for Design major.

*Cross-listed to: FA/VISA 2910 6.0.*

*Prerequisite: FA/YSDN 1101 3.0 or FA/VISA 1000 3.0 or permission of the Department of Design.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 2103 3.0 Research in Design.** An identification and examination of the various aspects of conducting original survey research in support of the problem-solving process utilized in contemporary visual communication design. Required course for Design major.

*Prerequisite: FA/YSDN 1101 3.0 or permission of the Department of Design.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 3001 3.0/3001 6.0 Design Options: Practicum.** In any given year, one or more courses involving traditional and non-traditional approaches to the practice of design may be offered by the Department of Design. Information on selected topics is available in the Department of Design handbook.

*Prerequisites: Specific course(s) as listed in the handbook (if applicable) and/or permission of the Department of Design.*

*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 3003 3.0 Typography 4.** This course furthers the students' knowledge of the typographic principles initiated in Typography 3. The investigation of typography in various media to communicate with impact on the audience is emphasized through font creation and type in motion. Required course for Design major.

*Prerequisite:* FA/YSDN 2007 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 3004 3.0 Communication Design 2.** A continued investigation into two and three-dimensional design problems. Various communication and learning theories are integrated into the design process assisting students to develop a multi-disciplined approach to design.

*Prerequisites:* FA/YSDN 2004 3.0 and FA/YSDN 2007 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 3005 3.0 Design and Systems 2.** A continued investigation into complex problem solving which emphasizes the application of systemic design methods. Individual and team problem-solving techniques are utilized to identify and analyze problems, develop content, specify functions, evaluate solutions and produce prototypes at the system level.

*Prerequisite:* FA/YSDN 2005 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 3006 3.0 Design and Information Architecture.** Students broaden their knowledge and understanding of the conceptual principles of organizational structures and methodologies involved in the presentation of information in virtual environments. In a series of projects, students explore various types of data and structural organization models of information.

*Prerequisites:* FA/YSDN 2003 3.0, FA/YSDN 2005 3.0 and FA/YSDN 3005 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 3007 3.0 Information Design 1.** The relevant theories and methodologies which allow the designer to prioritize, simplify and creatively visualize a wide range of complex textual and visual information are examined and applied.

*Prerequisite:* FA/YSDN 2003 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 3008 3.0 Information Design 2.** A further and extended investigation into the relevant theories and methodologies which allow

the designer to prioritize, simplify and creatively visualize a wide range of complex textual and visual information.

*Prerequisite:* FA/YSDN 3007 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 3101 3.0/3101 6.0 Design Options — Studies.** In any given year, one or more courses involving the theory and/or history of design may be offered. Information on selected topics is available in the Department of Design handbook.

*Prerequisites:* Specific course(s) as listed in the handbook (if applicable) and/or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 3102 3.0 Contemporary Problems in Design.** An identification and examination of the various roles that design and designers play in the solving of visual and cultural problems in today's rapidly changing society. Required course for Design major.

*Prerequisite:* FA/YSDN 2103 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, Compulsory and Voluntary Supplementary Fees apply.

**FA/YSDN 3103 3.0 Professional Aspects of Design.** A detailed investigation and critical examination of current professional practices and issues in the visual communication design field. The areas of copyright, intellectual property rights, business practices, accountability, presentation techniques, portfolio preparation etc. will be discussed in an involving and interactive seminar. Required course for Design major.

*Prerequisite:* FA/YSDN 2103 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 4001 3.0 Design Options – Practicum.** In any given year, one or more courses involving traditional and non-traditional approaches to the practice of design may be offered. Information on selected topics is available in the Department of Design handbook.

*Prerequisites:* Specific course(s) as listed in the handbook (if applicable) and/or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 4002 3.0 Type Explorations.** A continued in-depth investigation into contemporary explorations and applications of typographic principles, information theories, history and various approaches to solving

visual communication problems. Print, digital and environmental/broadcast distribution processes are investigated.

*Prerequisite:* FA/YSDN 3003 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 4003 3.0 Interactive System Design.** An advanced investigation into systems — intuitive and learned — that support human activities via interactive communication and distribution networks. An understanding of these communication/distribution methods working in reciprocal fashion from users to the computer and back, is presented.

*Prerequisites:* FA/YSDN 3005 3.0 and FA/YSDN 3102 3.0 or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 4004 6.0/4004 9.0/4004 12.0 Design Workshop.** Students develop a series of self-directed projects using a multidisciplinary approach in solving two-dimensional, three-dimensional and interactive digital design problems. The final weighting of course credit is assigned through adjudication by a departmental committee, based on the student's project proposal. Required course for Design major at a minimum of 6.0 credits.

*Prerequisites:* FA/YSDN 3102 3.0, FA/YSDN 3103 3.0 and all required Practicum courses or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 4101 3.0/4101 6.0 Design Options - Studies.** In any given year, one or more courses involving the theory and/or history of design may be offered by the Department of Design. Information on selected topics is available in the Department of Design handbook.

*Prerequisites:* Specific course(s) as listed in the handbook (if applicable) and/or permission of the Department of Design.

*Note:* For students not in the BDes program, compulsory and voluntary supplementary fees apply.

**FA/YSDN 4102 3.0 Design Management.** This course examines the theories and practice of design management in contemporary organizations. Through case studies and presentations by visiting speakers, students learn to construct practical working models of management systems. Projects require students to demonstrate investigative, analytical, organizational and business-oriented communication skills.

*Prerequisites:* FA/YSDN 3102 3.0 and FA/YSDN 3103 3.0 or permission of the Department of Design.



*Note: For students not in the BDes program, compulsory and voluntary supplementary fees apply.*

**FA/YSDN 4103 3.0 Design Internship.** This course provides students with an opportunity to experience the work environment in the design profession and facilitates the transition of design students to the profession. Full-time participation is required for three weeks at a design studio, design department of a corporation or agency approved by the Department of Design. Required course for Design major.

*Prerequisites: YSDN 3102 3.0 and YSDN 3103 3.0 or permission of the Department of Design.*

**FA/YSDN 4900 3.0/4900 6.0 Independent Studies: Design Practicum.** An individualized study program for highly motivated students in their final year of study who wish to pursue specific and intensive independent practicum projects under the supervision of a faculty member on topics not available in other courses in the department. No more than one independent study course may be taken in any given year. Compulsory and voluntary supplementary fees may apply.

*Prerequisite: A 4000-level studio practicum in the media area being proposed, an overall major average of B+ and permission of the department.*

*Note: Applications are available in the spring for the following academic session. Applications must include written support of faculty supervisor prior to submission to the department for approval.*

**FA/YSDN 4901 3.0/4901 6.0 Independent Studies: Design Studies.** An individualized study program for highly motivated students in their final year of study who wish to pursue specific and intensive independent studies projects under the supervision of a faculty member on topics not available in other courses in the department. No more than one independent study course may be taken in any given year. Compulsory and voluntary supplementary fees may apply.

*Prerequisite: Completion of at least 18 credits in design studies, an overall major average of B+ and permission of the department.*

*Note: Applications are available in the spring for the following academic session. Applications must include written support of faculty supervisor prior to submission to the department for approval.*

*Note: Courses taught at Sheridan College are open only to students in the BDes program.*

## Earth and Atmospheric Science – Pure and Applied Science

**Department Office:**  
101/102 Petrie, 416-736- 5245  
**Chair of the Department:**  
G.T. Jarvis

### Professors:

K.D. Aldridge, G.T. Jarvis, J.C. McConnell,  
I.C. McDade, J.R. Miller, D.E. Smylie,  
P.A. Taylor

### Professor Emeritus:

G.G. Shepherd

### Associate Professors:

Q. Cheng, M.A. Jenkins, G.P. Klaassen,  
D.V. Michelangeli, S. Pagiatakis,  
A.M.K. Szeto

### Adjunct Professor:

R. Stewart

### Adjunct Professor Emeritus:

B.W. Boville

The Department of Earth and Atmospheric Science offers interdisciplinary instruction in applied science areas dealing with the solid Earth and the atmosphere. Several distinct streams of instruction are offered.

In the Earth Science Stream, students obtain a strong background in the physics and chemistry of the solid Earth and the techniques of mineral and petroleum exploration. It is important for the Earth Science student planning a career in exploration to gain practical experience working in the area during summer periods prior to graduation.

In the Atmospheric Science Stream, students obtain solid grounding in the physics, chemistry and dynamics of the atmosphere.

The department offers a Specialized Honours applied science degree stream in Space and Communication Sciences, developed to meet the needs of rapidly expanding technologies in these fields.

In cooperation with the Chemistry Department, the department offers an Honours Double Major applied science degree stream in Atmospheric Chemistry that explores the interaction of chemistry and dynamics within the atmosphere and its impact on the global environment.

The course requirements of programs in Earth and Atmospheric Science are given in Science section V (for the Atmospheric Chemistry and Space and Communication Sciences streams, see separate entries in Science section V).

The department also offers certificates in Geographic Information Systems and Remote Sensing and in Meteorology, which are described in Science section I.

## Courses in Earth and Atmospheric Science

The prerequisites and corequisites stated indicate the standard of preparation with which admission is usually automatic. Admission to any course should otherwise be determined in consultation with a program adviser.

**SC/EATS 1010 3.0 Earth's Structure and Dynamics.** An introduction to the structure and dynamics of Earth's interior encompassing an overview of geophysics. Topics include geochronology, seismology, geomagnetism and plate tectonics. Three lecture hours per week, five three-hour laboratory sessions. One term. Three credits.

*Prerequisites: OAC Calculus or AS/SC/MATH 1515 3.0 or OAC Algebra and Geometry; OAC Chemistry or SC/CHEM 1500 4.0; OAC Physics or SC/PHYS 1510 4.0.*

*Degree credit exclusion: SC/EATS 1010 6.0.*

**SC/EATS 1011 3.0 Introduction to Atmospheric Science.** The origin, composition and vertical structure of the Earth's atmosphere and those of other planets. The present global atmospheric circulation. Weather systems, measurements and weather maps; atmospheric chemistry: the ozone layer and atmospheric pollution. Three lecture hours per week, five three-hour laboratory sessions. One term. Three credits.

*Prerequisites: OAC Calculus or AS/SC/MATH 1515 3.0 or OAC Algebra and Geometry; OAC Chemistry or SC/CHEM 1500 4.0; OAC Physics or SC/PHYS 1510 4.0.*

*Degree credit exclusion: SC/EATS 1010 6.0.*

### SC/EATS 2010 3.0 Introductory Meteorology.

An introduction to atmospheric radiation and thermodynamics, clouds and precipitation. Vertical soundings and an introduction to the analysis and interpretation of tephigrams. Atmospheric motion on the global, synoptic, meso- and micro-scales. Two lecture hours and three laboratory hours, or three lecture hours per week; one tutorial hour in alternate weeks. One term. Three credits.

*Prerequisites: AK/AS/SC/COSC 1540 3.0; AS/SC/MATH 1013 3.0 and AS/SC/MATH 1014 3.0, or equivalents; SC/PHYS 1010 6.0 or SC/PHYS 1410 6.0.*

### SC/EATS 2030 3.0 Introductory Geophysics and Geology.

Earth's structure and rheology, plate tectonics on a sphere, geochronology, palaeomagnetism, origin and secular variations of the Earth's magnetic field, rock magnetism, fault-plane solutions for earthquakes, rock types, rock-forming minerals, erosion, stream processes and beach processes. Three lecture hours and a one-hour computer laboratory. One term. Three credits.

*Prerequisites: AS/SC/MATH 1014 3.0; SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0.*

### SC/EATS 2050 4.0 Mineralogy and Petrology.

Introduction to the study of geology, minerals, rocks and structural geology. Physical and chemical properties of commonly occurring rock-forming minerals. Origin of commonly occurring igneous rocks. Interpretation of textures and geneses of these rocks. Three lecture hours and a laboratory session. One term. Four credits.

*Prerequisites: OAC Chemistry or SC/CHEM 1500 4.0, and OAC Physics or SC/PHYS 1510 4.0; or AS/SC/GEOG 1400 6.0 or AK/GEOG 2510 6.0.*

### SC/EATS 2470 3.0 Introduction to the Mechanics of Fluids and Solids.

(formerly SC/EATS 2470 4.0 — before 2000-2001) Introductory tensor algebra and calculus. Stress and strain analysis. Symmetry of stress tensor, equilibrium conditions. Lagrangian and Eulerian descriptions of strain. Physical interpretation of stress, strain and strain rate tensors. Conservation laws in continua. Consistency and compatibility



considerations. Constitutive relations. Two lecture hours and a tutorial or problems laboratory session. One term. Three credits.

*Prerequisites:* AK/AS/SC/COSC 1540 3.0; AS/SC/MATH 1025 3.0; AS/SC/MATH 2015 3.0; SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0.

*Degree credit exclusion:* SC/EATS 2470 4.0.

**SC/EATS 3001 1.0 Organization and Management Seminar in Space and Communication Sciences.** A seminar course taught by guest speakers from industry, government and the University. Content changes from year to year, but includes such topics as professional ethics, communications regulations, space law, space science policy, project management, privacy and security issues in computing. One lecture hour in alternate weeks. Two terms. One credit.

*Cross-listed to:* SC/COSC 3001 1.0, SC/PHYS 3001 1.0.

*Prerequisite:* Eligibility to proceed in the Specialized Honours stream in Space and Communication Sciences beyond the 2000-level requirements, or permission of the course director.

*Degree credit exclusions:* SC/COSC 3001 1.0, AS/SC/COSC 3002 1.0, SC/PHYS 3001 1.0.

**SC/EATS 3010 2.0 Introductory Applied Geophysics.** Students are introduced to the theory and operation of the instruments of applied geophysics. As well as the traditional applications to mineral and petroleum exploration, the use of geophysical instruments in engineering and environmental monitoring is described. Two lecture hours. Second term. Two credits.

*Prerequisites:* SC/EATS 2030 3.0; AK/AS/SC/COSC 1540 3.0 or equivalent programming experience.

*Corequisites:* SC/EATS 3020 3.0; SC/EATS 3180 3.0.

**SC/EATS 3011 1.0 Applied Geophysics Field School.** A one-week field school is held on campus (usually in May) and includes instruction in field geology and mapping, orienteering and practical exercises in the in-field use of geophysical instruments. One-week field school. One credit.

*Prerequisites:* SC/EATS 3010 2.0; SC/EATS 3020 3.0; SC/EATS 3180 3.0.

**SC/EATS 3020 3.0 Global Geophysics.** Studies of isostatic equilibrium and glacial rebound; seismic tomography and spherical harmonic representation of gravity and the geoid; Earth rotation and geodesy; geothermal heat flow and mantle convection. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/EATS 2030 3.0; SC/EATS 2470 4.0 or SC/EATS 2470 3.0 or SC/PHYS 2010 3.0; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0; SC/PHYS 2020 3.0.

**SC/EATS 3030 3.0 Atmospheric Radiation and Thermodynamics.** Applications of basic thermodynamic principles to dry and moist atmospheric situations. Solar (short wave) and terrestrial (long wave) radiation with respect to

absorption and scattering processes involving atmospheric atoms, molecules, aerosol particles and clouds. Three lecture hours. One term. Three credits.

*Cross-listed to:* SC/PHYS 3080 3.0.

*Prerequisites:* AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0; SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0.

*Degree credit exclusion:* SC/PHYS 3080 3.0.

**SC/EATS 3040 3.0 Atmospheric Dynamics I.** Dynamics of large-scale weather systems. Development of the equations of motion, geostrophy, thermal wind, vorticity and divergence, Ekman layers and the quasi-geostrophic theory. Three lecture hours. One term. Three credits.

*Prerequisites:* SC/EATS 2010 3.0; SC/EATS 2470 4.0 or SC/EATS 2470 3.0 or SC/PHYS 2010 3.0; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.

**SC/EATS 3130 3.0 Introductory Atmospheric Chemistry.** An introductory course linking chemistry and atmospheric science. Topics include atmospheric evolution; biogeochemical cycles; sources, transformations and sinks of atmospheric species; human impacts such as acid rain, photochemical smog and depletion of the ozone layer. Three lecture hours. One term. Three credits.

*Cross-listed to:* SC/CHEM 3060 3.0.

*Prerequisites:* Both SC/CHEM 1000 3.0 and SC/CHEM 1001 3.0, or SC/CHEM 1000 6.0; one of AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AS/SC/AK/MATH 1310 3.0, AS/SC/MATH 1505 6.0.

*Degree credit exclusions:* SC/CHEM 3060 3.0, SC/CHEM 3160 3.0.

**SC/EATS 3140 4.0 Sedimentology and Structural Geology.** Weathering, clastic rocks, diagenesis, mudrocks, carbonates, evaporites, orthographic construction, structural contours, stereographic projection, faults, folds, fabric analysis. Normally offered in alternate years. Three lecture hours, three laboratory hours. One term. Four credits.

*Prerequisites:* SC/EATS 2030 3.0; SC/EATS 2050 4.0.

**SC/EATS 3180 3.0 Seismology.** Theory and applications of the propagation of seismic waves in the Earth; laboratory and computer exercises where appropriate; practical exercises as required. Two lecture hours and a laboratory session. One term. Three credits.

*Prerequisites:* SC/EATS 2030 3.0; SC/EATS 2470 4.0 or SC/EATS 2470 3.0 or SC/PHYS 2010 3.0; AK/AS/SC/COSC 1540 3.0 or equivalent FORTRAN programming experience; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.

**SC/EATS 3280 3.0 Physics of the Space Environment.** An introduction to the physical processes of the upper atmosphere, the ionosphere, the magnetosphere and the heliosphere, and the interactions that occur

with space vehicles that traverse these regions of space. Three lecture hours. One term. Three credits.

*Cross-listed to:* SC/PHYS 3280 3.0.

*Prerequisites:* SC/PHYS 2020 3.0; SC/PHYS 2040 3.0.

*Degree credit exclusion:* SC/PHYS 3280 3.0.

**SC/EATS 3300 3.0 Geographical Information Systems (GIS) and Spatial Analysis of the Physical Environment.**

The fundamental concepts and techniques of GIS are presented along with detailed discussion of computer implementation. The emphases include database management and map analysis/spatial modeling. PC ArcView with Spatial Analyst extension GIS programs are used for hands-on exercises. Normally offered in alternate years. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisites:* AK/AS/SC/COSC 1540 3.0 or AK/AS/SC/COSC 1030 3.0 or AK/AS/SC/COSC 1520 3.0; AS/SC/AK/MATH 2560 3.0 or AS/SC/GEOG 2420 3.0 or AS/SC/AK/MATH 1131 3.0; AS/SC/MATH 1025 3.0 or AS/SC/MATH 1013 3.0; both SC/EATS 1010 3.0 and SC/EATS 1011 3.0, or SC/EATS 1010 6.0, or SC/EATS 2030 3.0, or AS/SC/GEOG 1400 6.0, or AK/GEOG 2510 6.0, or permission of the instructor.

**SC/EATS 4000 3.0/4000 6.0 Research Project.** A major written report or thesis on field measurements, laboratory research or computer modelling in the Earth or atmospheric sciences. Work is supervised by a faculty member. Open to exceptional students. Two terms. Six credits. One term. Three credits.

*Prerequisite:* Written permission of the department Chair.

**SC/EATS 4001 6.0 Space and Communication Sciences Workshop.** This course is intended to allow the student to carry out the development of a specific space project, under the supervision of a faculty member, a government scientist or an industrial associate. The equivalent of nine laboratory hours per week for two terms.

*Cross-listed to:* SC/COSC 4001 6.0, SC/PHYS 4001 6.0.

*Prerequisite:* Satisfactory completion of the 3000-level courses in the Space and Communication Sciences core.

*Degree credit exclusions:* SC/COSC 4001 6.0, SC/PHYS 4001 6.0.

**SC/EATS 4010 6.0 Applications of Geophysics and Interpretation Theory.** Seismic, gravity and electromagnetic methods in applied geophysics and their interpretation. Mining and petroleum exploration, engineering, hydrological and environmental applications of geophysics are included. The laboratory involves instrumental surveys on campus and reduction and interpretation of previous field school measurements. Normally

offered in alternate years. Two lecture hours and a laboratory session. Two terms. Six credits.

*Prerequisites:* SC/EATS 3010 2.0; SC/EATS 3011 1.0; SC/EATS 3020 3.0; SC/EATS 3180 3.0.

**SC/EATS 4020 3.0 Time Series and Spectral Analysis.** Treatment of discrete sampled data by linear optimum Wiener filtering, minimum error energy deconvolution, autocorrelation and spectral density estimation, discrete Fourier transforms and frequency domain filtering and the Fast Fourier Transform algorithm. Three lecture hours. One term. Three credits.

*Cross-listed to:* AS/SC/MATH 4830 3.0, SC/PHYS 4060 3.0.

*Prerequisites:* AK/AS/SC/COSC 1540 3.0 or equivalent FORTRAN programming experience; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.

*Degree credit exclusions:* AK/AS/SC/COSC 4242 3.0, AK/AS/SC/COSC 4451 3.0, AS/SC/MATH 4130B 3.0, AS/SC/MATH 4830 3.0, AS/SC/MATH 4930C 3.0, SC/PHYS 4060 3.0.

**SC/EATS 4040 3.0 Economic Geology and Ore Genesis.** Deposits studied include gold, pegmatite, chromite, nickel/copper sulfide, platinum group elements, porphyry copper, Mississippi Valley type lead-zinc, stratiform sedimentary and volcanogenic massive sulfide deposits. Normally offered in alternate years. Three lecture hours. One term. Three credits.

*Prerequisite:* SC/EATS 3140 4.0.

**SC/EATS 4050 3.0 Synoptic Meteorology I.** Analysis of mid-latitude synoptic scale weather systems: an introduction to storm tracks, fronts and air masses, and diagnostic methods. Analysis and interpretation of surface weather maps and upper-air charts. Two lecture hours, three laboratory hours. Fall Term. Three credits.

*Prerequisite or corequisite:* SC/EATS 3040 3.0.

*Degree credit exclusion:* SC/EATS 4050 6.0.

**SC/EATS 4051 3.0 Synoptic Meteorology II.** (formerly second half of SC/EATS 4050 6.0 — before Winter 2001) Synoptic and mesoscale weather systems with emphasis on prediction: focus on forecasting with emphasis on the interpretation of numerical weather prediction models such as the GEM, MC2 and SEF models. Satellite and radar image interpretation for nowcasting. Two lecture hours, three laboratory hours. Winter term. Three credits.

*Prerequisite:* SC/EATS 4050 3.0.

*Degree credit exclusion:* SC/EATS 4050 6.0.

**SC/EATS 4120 3.0 Cloud Physics and Radar Meteorology.** Thermodynamics of cloud processes. Buoyancy and convection. Weather radar. Storms and associated precipitation. Cloud droplet formation and growth of ice crystals. Snow, graupel and hail.

Microphysical processes and climate. Normally offered in alternate years. Three lecture hours. One term. Three credits.

*Prerequisite or corequisite:* SC/EATS 3030 3.0.

**SC/EATS 4130 3.0 Atmospheric Dynamics II.** The theory and behaviour of Rossby, baroclinic and internal gravity waves in the atmosphere, including their origin, structure and propagation. Barotropic and baroclinic instability and the global circulation of the atmosphere. Normally offered in alternate years. Three lecture hours. One term. Three credits.

*Prerequisite:* SC/EATS 3040 3.0.

**SC/EATS 4140 3.0 Numerical Weather Prediction.** The development of computational techniques for the solution of problems in atmospheric dynamics. The construction of numerical models for the prediction of weather. Three lecture hours per week, eight three-hour laboratory sessions held in consecutive weeks (scheduled in the middle of term to coincide with lecture material). One term. Three credits.

*Prerequisites:* SC/EATS 3040 3.0; AK/AS/SC/COSC 1540 3.0 or equivalent FORTRAN programming experience.

*Prerequisite or corequisite:* SC/EATS 4130 3.0 strongly recommended.

**SC/EATS 4150 3.0 Turbulence and Diffusion in the Atmospheric Boundary Layer.**

Laminar and turbulent flows, hydrodynamic stability and transition. Wind and temperature profiles in the atmospheric boundary-layer, Monin-Obukhov and planetary boundary-layer similarity theories. Turbulence spectra, local isotropy, the inertial subrange and Kolmogoroff hypotheses. Turbulent diffusion from atmospheric sources. Normally offered in alternate years. Three lecture hours. One term. Three credits.

*Prerequisite or corequisite:* SC/EATS 3040 3.0 or SC/PHYS 4120 3.0.

**SC/EATS 4160 3.0 Climate and Climate Change.** The Earth's climate and the general circulation of the atmosphere. Climate models. Long-term stability of the Earth's climate. Anthropogenic impact on the climate, carbon dioxide and other climate change issues. Normally offered in alternate years. Three lecture hours. One term. Three credits.

*Prerequisite:* SC/EATS 2010 3.0 or SC/EATS 3040 3.0 or permission of the instructor.

**SC/EATS 4170 4.0 Transport and Chemistry of Atmospheric Trace Gases.** A study of the processes that affect the composition of the atmosphere and the methods used to include these in numerical models. Included are sources, transport, deposition, photochemistry, biogeochemical cycles, one-dimensional computer models and analysis of atmospheric data sets. Three lecture hours, two computer laboratory hours. One term. Four credits.

*Cross-listed to:* SC/CHEM 4061 4.0.

*Prerequisites:* SC/EATS 3130 3.0 or SC/CHEM 3060 3.0; AK/AS/SC/COSC 1540 3.0; AS/SC/AK/MATH 2270 3.0.

*Degree credit exclusions:* SC/CHEM 4061 4.0, SC/CHEM 4150 4.0.

**SC/EATS 4220 3.0 Remote Sensing of the Earth's Surface.** Principles used in extracting physical information about the Earth's surface using remote sensing. Remote sensing in the visible, short-wave infrared, thermal infrared and microwave regions is discussed in terms of potential applicability to forestry, agriculture, water resources and geology. Two lecture hours, three laboratory hours. One term. Three credits.

*Prerequisite(s):* SC/PHYS 2020 3.0, or SC/PHYS 2060 3.0, or both SC/PHYS 2211 1.0 and SC/PHYS 2212 1.0.

**SC/EATS 4230 3.0 Remote Sensing of the Atmosphere.** An introduction to and summary of the area of remote sensing of the atmosphere from space platforms and from the ground. Topics include atmospheric radiation, atmospheric spectroscopy, inversion theory, instrumentation, satellites, space platforms and future technology. Three lecture hours per week, occasional laboratory sessions. One term. Three credits.

*Prerequisites:* SC/EATS 2010 3.0 or SC/PHYS 2060 3.0; AS/SC/MATH 1025 3.0; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.

*Prerequisite or corequisite:* SC/EATS 3030 3.0 or permission of the course director.

**SC/EATS 4240 3.0 Storms and Weather Systems.** The study of mesoscale circulations and precipitating storm systems. Basic governing equations and instabilities. Nature and evolution of isolated convection, thunderstorms, mesoscale convective systems, precipitation bands, extratropical cyclones, fronts and frontogenesis, hurricanes, blizzards, polar lows and orographic storms. Normally offered in alternate years. Three lecture hours. One term. Three credits.

*Prerequisites or corequisites:* SC/EATS 3040 3.0; SC/EATS 4120 3.0.

**SC/EATS 4250 3.0 Space Geodynamics.** The dynamical behaviour of the Earth from space measurements. Included are the external gravity field of the Earth, orbital dynamics of artificial satellites, satellite geoid, internal figure of the Earth, rotation of the Earth and its measurement by space techniques. Normally offered in alternate years. Three lecture hours. One term. Three credits.

*Cross-listed to:* SC/PHYS 4410 3.0.

*Prerequisites or corequisites:* SC/EATS 3020 3.0; AS/SC/MATH 3241 3.0 or AK/AS/SC/COSC 3121 3.0; AS/SC/MATH 3271 3.0.

*Degree credit exclusion:* SC/PHYS 4410 3.0.

**SC/EATS 4300 3.0/4300 6.0 Special Topics.** A series of lectures and supervised study on special topics not ordinarily included in other courses in Earth and Atmospheric Science. Three lecture hours. Two terms. Six credits. One term. Three credits.

**SC/EATS 4400 3.0 Geographical Information Systems (GIS) and Data Integration.** Project-oriented geomatics course using GIS systems (Arc/Info and S-Plus or SPSS for UNIX) and various techniques (map algebra, statistical, fuzzy logic, AI, neural network and fractal/multifractal) for integrating diverse dataset (geological, geophysical, geochemical, remote sensing and GPS). Normally offered in alternate years. Two lecture hours, two laboratory hours. One term. Three credits.

*Prerequisite:* One of SC/EATS 3300 3.0, AS/SC/GEOG 3180 3.0, AS/SC/GEOG 4340 3.0, ES/ENVS 3520 3.0, ES/ENVS 4520 3.0, or permission of the instructor.

## East Asian Studies – Arts

### Program Office and Resource Centre:

030C Founders College, 416-736-5148

### Coordinator of the Program:

Gordon Anderson

### Professors:

M.B. Frolic, Political Science; C.J. McMillan, Administrative Studies; J.A. Nagata, Anthropology; B.T. Wakabayashi, History

### Professors Emeriti:

J. Ch'en, History; D. Daly, Administrative Studies (Atkinson); S. Endicott, History (Atkinson); D. Holoch, Languages; G. Jordan, History; T. Sekine, Economics; D. Willmott, Sociology (Glendon)

### Associate Professors:

B.N. Cham, Political Science (Glendon); T. Goossen, Humanities; M. Gewurtz, History/Humanities; D. Holoch, Languages, Literatures and Linguistics; B. Luk, History; D.P. Lumsden, Anthropology; P.M. Mitchell, History; J.D. Paper, Humanities; R. Perry, Visual Arts (Fine Arts); A. Schlosser, Theatre (Fine Arts); S.Y. Tsau, Languages, Literatures and Linguistics; P. Van Esterik, Anthropology

### Assistant Professors:

P. Giordan, Languages, Literatures and Linguistics; S. Henders, Political Science; T. Hyun, Humanities; P. Kelly, Geography; S. Otto, Music (Fine Arts)

### Associate Lecturer:

N. Ota, Languages, Literatures and Linguistics

### Sessional Associate Professor:

J. Van Esterik, Social Science

### Sessional Assistant Lecturer:

M. Handa, Languages, Literatures and Linguistics

The East Asian Studies program offers a broadly based approach to the study of the peoples and civilizations of East Asia. It is a rich and flexible program of study that brings together courses from the academic disciplines of the humanities, social sciences, languages and literature and fine arts. Most of the existing courses focus on Chinese and Japanese societies past and present, but new courses are being developed that deal with Korea and with those parts of Southeast Asia that sustain close cultural ties with East Asia. The East Asian Studies program offers a number of undergraduate degree program choices: within the general guidelines and requirements of each, a student can choose from a rich array of course offerings every year to

create a combination which best serves her/his academic interests and career aspirations. Students should consult the coordinator when designing their programs of study.

*Note: For the several programs of study available in East Asian Studies, please consult the Faculty of Arts "Programs of Study" section.*

## Departmental and Divisional Courses in East Asian Studies

*Note: For purposes of meeting program requirements, all Foundations courses will count as six credits towards the major.*

Descriptions of the content and format of these courses are contained in the appropriate departmental and divisional listings in this Calendar. Not all courses will necessarily be offered in any given year; for details of courses to be offered, consult the coordinator. Complete descriptions and reading lists are given in the East Asian Studies supplementary calendar, available each spring.

### Anthropology

AS/ANTH 3160 6.0 Family and Kinship in Comparative Perspective.

AS/ANTH 3320 6.0 Religious Ritual and Symbolism.

AS/ANTH 4200J 6.0 Religious Movements in Global Perspective.

### Chinese

AS/CH 1000 6.0 Elementary Modern Standard Chinese.

AS/CH 2000 6.0 Intermediate Modern Standard Chinese.

AS/CH 2010 6.0 Chinese for Beginners With Background.

AS/CH 2700 6.0 Introduction to Chinese Literature.

AS/CH 3000 6.0 Advanced Modern Standard Chinese.

AS/CH 3010 6.0 Modern Standard Chinese for Speakers of Cantonese or other Dialects.

AS/CH 3600 6.0 Lu Xun: Representative Works.

AS/CH 3610 6.0 Oral Literature in Contemporary China.

AS/CH 3710 6.0 Women Writers in Modern China.

AS/CH 3750 6.0 Order and Chaos in China and the West: Great Ideas of Two Civilizations.

AS/CH 3790 6.0 Contemporary Chinese Culture Through Literary Texts and Film.

AS/CH 4710 6.0 Popular Fiction: The Heroic Novel.

AS/CH 4712 6.0 Confucian or Daoist? The Skeptical Novel and Its Women.

AS/CH 4800A 6.0 The Novel as Popular History: Three Kingdoms.

AS/CH 4800B 6.0 Tales of the Outside(rs).

### Film

FA/FILM 3710 6.0 Japanese Culture, Literature and Film. (Cross-listed to: AS/HUMA 3420 6.0 and AS/JP 3720 6.0)

## Geography

AS/GEOG 3390K 3.0 Geographies of the Pacific Rim: Asian Development and Canadian Connections.

## History

AS/HIST 1030 6.0 Imperialism and Nationalism in Modern Asia.

AS/HIST 2710 6.0 East Asia: Tradition and Defiance.

AS/HIST 3760 6.0 Modern Japan.

AS/HIST 3770 6.0 Modern China.

AS/HIST 3775 3.0 History of Hong Kong.

AS/HIST 3780 6.0 Asian Crossroads: South-East Asia Since the 17th Century. (Cross-listed to: AK/HIST 3109B 6.0)

AS/HIST 3785 6.0 Science, Technology and Society in Chinese History.

AS/HIST 3930B 6.0 History of Singapore.

AS/HIST 4050H 6.0 Education and Society in Modern China.

AS/HIST 4740 6.0 Chinese Rural Society.

AS/HIST 4760 6.0 War and Peace in East Asia: The Second World War.

AS/HIST 4930B 6.0 Migrations and Diasporas: The Modern Chinese Experience.

## Humanities

AS/HUMA 1400 9.0 Culture and Society in East Asia.

AS/HUMA 2000B 6.0 The Asian Canadian Experience.

AS/HUMA 2410 6.0 Chinese Art, Poetry and Religion (formerly AS/HUMA 2000J 6.0).

AS/HUMA 2420 9.0 Introduction to Korean Culture.

AS/HUMA 3000D 6.0 Religion, Gender and Korean Culture.

AS/HUMA 3420 6.0 Japanese Culture, Literature and Film (Cross-listed to: AS/JP 3720 6.0, FA/FILM 3710 6.0).

AS/HUMA 3940 6.0 The Feminine in Chinese Culture: Ideal and Reality.

AS/HUMA 4000D 6.0 Changing Narratives of Family in Modern Korea.

AS/HUMA 4000G 6.0 Advanced Topics in Japanese Cultural History.

AS/HUMA 4400A 6.0 Asian Art: Zen Painting and Poetry. (Cross-listed to: FA/VISA 4340A 6.0)

AS/HUMA 4740 6.0 The Sacred and the Arts.

## Japanese

AS/JP 1000 6.0 Elementary Modern Standard Japanese.

AS/JP 2000 6.0 Intermediate Modern Standard Japanese.

AS/JP 3000 6.0 Advanced Modern Standard Japanese.

AS/JP 3720 6.0 Japanese Culture, Literature and Film (Cross-listed to: AS/HUMA 3420 6.0, FA/FILM 3710 6.0).

AS/JP 4000 6.0 Advanced Reading in Contemporary Japanese.

AS/JP 4100 6.0 Teaching of Japanese as a Foreign/Second Language.

## Political Science

AS/POLS 3220 3.0 Comparative Foreign Policy Analysis.

AS/POLS 3230 3.0 Global Issues in Foreign Policy.

GL/POLS 3290 6.0 Government and Politics of China.  
 AS/POLS 3510 3.0 Government and Politics in China.  
 AS/POLS 3515 3.0 China and the World.  
 AS/POLS 3590 3.0 Japan and the World Order.  
 AK/POLS 3650 6.0 Government and Politics in China.  
 AS/POLS 4530 3.0 Crisis and Collapse of the Soviet Bloc.  
 AS/POLS 4595 3.0 Southeast Asia in the New Global Order.  
 AS/POLS 4700 3.0 Topics in International Political Economy of Eastern Asia.  
 AS/POLS 4705 3.0 International Politics of Human Rights and Democracy in Asia.  
 AS/POLS 4735 3.0 After the Fall: International Relations of Collapsed Socialism.

### Social Science

AS/SOSC 2430 6.0 Peoples and Cultures of Southeast Asia.

### Theatre (Fine Arts)

FA/THFA 4220 6.0 Non-European Theatre.

### Visual Arts (Fine Arts)

FA/VISA 1340 6.0 The Art of Asia.  
 FA/VISA 3343 3.0 The Art of China.  
 FA/VISA 3344 3.0 The Art of Japan.  
 FA/VISA 4340A 6.0 Asian Art: Zen Painting and Poetry. (Cross-listed to: AS/HUMA 4400A 6.0)

*Note: Additionally, there are available within the Departments of History and Political Science and the Divisions of Humanities and Social Science, 4000-level thesis or independent reading courses open to East Asian Studies majors on an individual basis.*

Registration in Atkinson and Faculty of Fine Arts courses requires the approval of the instructor. Students are subject to Faculty of Arts regulations governing out-of-Faculty courses.

## Economics – Arts

### Department Office:

1124 Vari Hall, 416-736-5083

### Undergraduate Office:

1144 Vari Hall, 416-736-5322

### Chair of the Department:

E. Appelbaum

### Professors:

E. Appelbaum, L. Danziger, S. Donnenfeld,  
 E. Katz, J. Landa, C. Plourde, J. Smithin

### Professors Emeriti:

J.A. Buttrick, G.V. Doxey, H. Flakierski,  
 F. Lefebvre, P. Medow, J. Ridpath,  
 A.J. Robinson, H. Schwartz, T. Sekine,  
 R. Thakkar

### Associate Professors:

M. Anam, J. Beare, K. Carpenter,  
 S.H. Chiang, A.J. Cohen, M.D.G. Copeland,  
 G. Fallis, R. Grinspun, A. Haug, W.M. Ho,  
 N. Jazairi, J. Landa, R. Latham, F. Lazar,  
 K.C. Lo, A. Mansoorian, G.H. McKechnie,  
 R. Rilstone, A.A. Shapiro, J.B. Smith

### Assistant Professors:

T. Crossley, R.K. House, J. Jasiak, T.J. Kim,  
 K. MacKinnon

Undergraduate training in economics is intended to familiarize students with the discipline of economic thinking, and so equip them for intelligent appraisal of contemporary economic problems. It is also intended to make students aware of the nature of economic science and of directions in which economic theory is currently moving. The discipline of economic thinking has three related parts: identifying specifically economic problems; developing and applying economic theory to improve our understanding and ability to solve the problems; evaluating the adequacy of our theoretical understanding through the use of data and empirical testing.

Specifically, economic problems arise out of the conflict between apparently limitless human demand for goods and services and a limited supply of resources for satisfying those demands. Courses in Economics expose students both to the wide range of individual and social problems that arise from this conflict and to the distinctive economic approach to their solution. Economic theory provides students with the analytical framework necessary for understanding and solving economic problems. Empirical work provides a basis for improving existing theories and for distinguishing between competing theories.

An undergraduate degree in Economics prepares students for careers in business and government, for graduate training in economics, and for professional training in business, law, public administration and other disciplines.

## Courses in Economics

*Note: For specific requirements and course restrictions of programs offered by this department, please consult the Faculty of Arts "Programs of Study" section.*

1. Note: Students planning to major or minor in Economics must successfully complete AS/ECON 1000 3.0/1010 3.0 as well as the mathematics requirement with AS/ECON 1530 3.0/1540 3.0. Students who fail to satisfy the introductory economics and the mathematics (calculus/algebra) requirements will not be permitted to take AS/ECON 2300 3.0/2350 3.0 or AS/ECON 2400 3.0/2450 3.0, not even as electives. Admission to most 2000, 3000 and 4000-level courses in Economics is conditional upon satisfactory completion of the Introduction to Microeconomics and the Introduction to Macroeconomics courses, AS/ECON 1000 3.0 and AS/ECON 1010 3.0.

2. In limited enrolment courses, preference will be given to students with applicable majors.

3. Graduate courses: With the permission of the Director of the Graduate program in Economics, students in an Honours BA program may take 5000-level courses in lieu of 4000-level courses.

4. Courses in Economics normally have three class hours a week. Some of the courses listed below are not offered every year or term.

Full information on the section format and course offerings in each year is announced, respectively, in the Undergraduate Lecture Schedule (obtainable from the Office of the Registrar) and the Economics mini-calendar, obtainable from the Economics Undergraduate Records Office.

*Note: Detailed Economics and Business program information is announced in the Faculty of Arts "Programs of Study" section, and in the Coordinated program in Business, Public Policy and Administrative Studies mini-calendar, obtainable in the Economics Undergraduate Records Office. A list of Economics and Business courses follows the Economics courses below.*

*Degree credit exclusions: The University offers some courses for which the content is similar to that presented in other courses. Such courses are termed degree credit exclusions and are so designated minimally in this Calendar and more fully in the appropriate mini calendar(s) as well as in the Lecture Schedule (produced by the Office of the Registrar). When an Economics course is taken outside of the Faculty of Arts, the student will be given credit for that course — either as an Economics course or as an AS/ECON second-digit-5 equivalent, or a free choice course, as appropriate.*

**AS/ECON 1000 3.0 Introduction to Microeconomics.** An introduction to the principles and methods of economics, with emphasis on microeconomic theory. Topics include the theory of markets, price determination and the theory of the firm.

*Degree credit exclusions: AK/ECON 1000 3.0, AS/ECON 1900 3.0.*

*Note: Successful completion of this course, together with AS/ECON 1010 3.0, is required for all students who intend to pursue additional courses in economics at the 2000, 3000 and 4000 level and in order to pursue degree studies in Economics.*

**AS/ECON 1010 3.0 Introduction to Macroeconomics.** An introduction to the principles and methods of economics with emphasis on macroeconomic theory. Topics include the theory of money and banking, the theory of international trade and finance, and the economic analysis of such selected topics as unemployment, inflation and government budget policy.

*Degree credit exclusions: AK/ECON 1010 3.0, AS/ECON 1900 3.0.*

*Note: Successful completion of this course, together with AS/ECON 1000 3.0, is required for all students who intend to pursue additional courses in economics at the 2000, 3000 and 4000 level and in order to pursue degree studies in Economics.*

**AS/ECON 1530 3.0 Introductory Mathematics for Economists I.** This course introduces and develops topics in differential calculus, integral calculus and their applications in economics. This course is required for all Economics majors and minors; it also satisfies the Mathematics requirement for the Schulich School of Business.

*Cross-listed to: AS/MATH 1530 3.0.*

*Corequisite or prerequisite: AS/ECON 1000 3.0 or AS/ECON 1010 3.0 or equivalents.*

*Degree credit exclusions: AS/MATH 1000 3.0, AS/MATH 1300 3.0, AK/MATH 1410 6.0, AS/MATH 1550 6.0, AS/SC/MATH 1013 3.0, AS/SC MATH 1505 6.0 or equivalent.*

**AS/ECON 1540 3.0 Introductory Mathematics for Economists II.** This course introduces and develops topics including matrix algebra, optimization, comparative statics of general function models and their applications in economics. This course is required for all Economics majors and minors; it also satisfies the Mathematics requirements for the Schulich School of Business.

*Cross-listed to: AS/MATH 1540 3.0.*

*Prerequisite: One of AS/ECON 1530 3.0, AS/MATH 1530 3.0, or AS/MATH 1300 3.0, or equivalents.*

*Prerequisite or corequisite: AS/ECON 1000 3.0 or AS/ECON 1010 3.0, or equivalents.*

*Degree credit exclusions: AS/MATH 1550 6.0, SC/MATH 1505 6.0.*

*Note: May not be taken by students who have taken or are taking, AS/AK/SC/MATH 1021 3.0, AS/MATH 1025 3.0, AS/SC/MATH 2021 3.0, AS/MATH 2221 3.0, AS/MATH 2222 3.0, or equivalent.*

*Note: Admission to 2000, 3000 and 4000-level courses in Economics is conditional upon satisfactory completion of AS/ECON 1000 3.0 and AS/ECON 1010 3.0 and the additional prerequisites for each course. (Exception: AS/ECON 1900 3.0, which is a degree credit exclusion with AS/ECON 1000 3.0/1010 3.0).*

**AS/ECON 1900 3.0 Introduction to Economics For Non-Majors.** A one-semester introduction to both microeconomic and macroeconomic concepts, applied to public policy issues. Intended for students in other disciplines, the course provides concise fundamentals without the mathematical details of AS/ECON 1000 3.0/1010 3.0. This course serves as prerequisite for some 3000-level Economics courses.

*Degree credit exclusions: AS/ECON 1000 3.0 and AS/ECON 1010 3.0, or equivalents.*

*Note: Not open to Economics majors or students in Coordinated Business. Students who enrol in a degree program in Economics will not receive credit for this course toward their Economics requirements.*

**AS/ECON 2300 3.0 Intermediate Microeconomic Theory I.** Theory of the consumer, uncertainty, theory of the firm, competitive equilibrium.

*Prerequisites: AS/ECON 1000 3.0/1010 3.0 and AS/ECON 1530 3.0/1540 3.0, or equivalents.*

*Degree credit exclusion: AS/ECON 2300 6.0.*

**AS/ECON 2350 3.0 Intermediate Microeconomic Theory II.** Monopoly, factor markets, oligopoly, game theory, general equilibrium, welfare economics.

*Prerequisite: AS/ECON 2300 3.0 or equivalent.*

*Degree credit exclusion: AS/ECON 2300 6.0.*

**AS/ECON 2400 3.0 Intermediate Macroeconomic Theory I.** Preliminary development of models of the determination of national income in the short run and the long run, in closed and open economies. Keynesian and New Classical models are studied.

*Prerequisites: AS/ECON 1000 3.0/1010 3.0 and AS/ECON 1530 3.0/1540 3.0, or equivalents.*

*Degree credit exclusion: AS/ECON 2400 6.0.*

**AS/ECON 2450 3.0 Intermediate Macroeconomic Theory II.** Completion of the material studied in AS/ECON 2400 3.0.

*Prerequisite: AS/ECON 2400 3.0 or equivalent.*

*Degree credit exclusion: AS/ECON 2400 6.0.*

**AS/ECON 2500 3.0 Introductory Statistics for Economists.** This course provides an introduction to statistical techniques. Topics covered include: descriptive statistics, index numbers, frequency distributions, random variables, sampling distributions, introduction to probability theory, the normal distribution, correlation and the design and interpretation of hypothesis tests.

*Degree credit exclusions: AK/ECON 3470 3.0, EN/ENVS 2010 6.0, AS/SC/GEOG 2420 3.0, AS/SC/GEOG 3421 3.0, AS/MATH 1131 3.0, AS/MATH 2560 3.0, AS/KINE 2050 3.0, AS/POLS 3300 6.0, AS/PSYC 2020 6.0, AS/PSYC 2021 3.0, AS/SOCI 3030 6.0.*

**AS/ECON 3069 3.0 Canadian Economic Development Until the 1870s.** Selected topics in the development of the Canadian economy to Confederation and the establishment of the National Policy.

*Prerequisite: AS/ECON 1000 3.0 or AS/ECON 1010 3.0 or AS/ECON 1900 3.0, or equivalents.*

*Degree credit exclusions: AS/HIST 3560 3.0, AK/ECON 3670 3.0/3680 3.0.*

**AS/ECON 3079 3.0 Canadian Economic Development After 1870.** The changing structure of the Canadian economy after 1870. Emphasis is placed on competing explanations of the process of economic development in Canada.

*Prerequisite: AS/ECON 1000 3.0 or AS/ECON 1010 3.0 or AS/ECON 1900 3.0, or equivalents.*

*Degree credit exclusions: AS/HIST 3561 3.0, AK/ECON 3670 3.0/3680 3.0, AK/ECON 3690 3.0,*

**AS/ECON 3089 3.0 Economic History of the United States I 1640-1860.** In analyzing the 1640-1860 period, this course illustrates both the role of economic theory in the interpretation of US history and the contribution of the study of US history to the development and evaluation of economic theory.

*Prerequisite: AS/ECON 1000 3.0 or AS/ECON 1010 3.0 or AS/ECON 1900 3.0, or equivalents.*

*Degree credit exclusion: AS/HIST 3660 3.0.*

**AS/ECON 3099 3.0 Economic History of the United States II: 1860-1940.** In analyzing the 1860-1940 period, this course illustrates both the role of economic theory in the interpretation of US history and the contribution of the study of US history to the development and evaluation of economic theory.

*Prerequisite: AS/ECON 1000 3.0 or AS/ECON 1010 3.0 or AS/ECON 1900 3.0, or equivalents.*

*Degree credit exclusion: AS/HIST 3670 3.0.*

**AS/ECON 3120 3.0 or 3129 3.0 Economic Development in Europe before the Industrial Revolution.** Selected topics in the economic development of Europe from the Black Death through the early-modern period. The emphasis is on the application of basic economic concepts to explain economic events and to evaluate economic policies of the period.

*Prerequisite: AS/ECON 1000 3.0 or AS/ECON 1010 3.0 or AS/ECON 1900 3.0, or equivalents.*

*Degree credit exclusion: AK/ECON 3710 6.0.*

**AS/ECON 3130 3.0 or 3139 3.0 Economic Development in Europe from the Industrial Revolution to the Present.** Selected topics in the development of the European economy ranging from the causes of the Industrial Revolution in Britain to the consequences of the European Economic Community.

*Prerequisite: AS/ECON 1000 3.0 or AS/ECON 1010 3.0 or AS/ECON 1900 3.0 or equivalents.*

*Degree credit exclusion: AK/ECON 3710 6.0.*

**AS/ECON 3140 3.0 Monetary Economics.** The demand for money, the money supply and the banking system, Canadian financial institutions, and the theory and practice of monetary policy.

*Prerequisite: AS/ECON 1010 3.0, or equivalent.*

*Degree credit exclusion: AK/ECON 3430 3.0.*

**AS/ECON 3150 3.0 International Trade I.** International trade theories and policies; international flows of capital, labour and technology; economic growth and development in the international economy; international institutions.

*Prerequisite: AS/ECON 1000 3.0, or equivalent.*

**AS/ECON 3200 3.0 Industrial Organization.** Industrial organization; structure of modern industry; industrial policies; anti-restrictive practices and policies; control of industry; public utilities; government enterprise.

*Prerequisite: AS/ECON 1000 3.0, or equivalent.*

*Degree credit exclusion: AK/ECON 3750 3.0.*

**AS/ECON 3210 3.0 Use of Economic Data.** This course introduces the theory and practice of empirical analysis of economic models. Linear regression analysis is developed and

applied in the course. Use is made of Canadian data sets and statistical software packages for micro and/or mainframe computers.

*Prerequisite:* AS/ECON 2500 3.0 or equivalent.

*Degree credit exclusion:* Not open to students who are taking or have taken AS/ECON 4210 3.0, AS/MATH 3330 3.0, AS/MATH 3033 3.0 or equivalent.

**AS/ECON 3230 3.0 Urban Economics.** The urban area as an economic system. Topics include determinants of the demand for urban land, the economics of urban transportation, externalities and public policy, municipal public finance.

*Prerequisite:* AS/ECON 1000 3.0, or equivalent.

*Degree credit exclusions:* AK/URST 3540 3.0, AK/ECON 3640 3.0.

**AS/ECON 3240 3.0 or 3249 3.0 Labour Economics – Theory.** Theory of labour supply and demand, wages, and employment.

*Prerequisite:* AS/ECON 1000 3.0, or equivalent.

*Degree credit exclusions:* AK/ECON 3610 3.0, AK/ECON 3620 3.0.

**AS/ECON 3250 3.0 or 3259 3.0 Labour Economics – Institutions.** The economic impact of trade unions, labour legislation and industrial organization of the market for labour.

*Prerequisite:* AS/ECON 1000 3.0, AS/ECON 3240 3.0, or equivalents.

*Degree credit exclusion:* AK/ECON 3600 6.0, AK/ECON 4080E 3.0.

**AS/ECON 3280 3.0 or 3289 3.0 Economics of Federal-Provincial Relations.** The economic theory of federalism. The assignment of economic functions among governments, in theory and in practice; the principles underlying redistribution of revenues by intergovernmental grants; differential effects of federal policies on provincial economies; proposals for improving coordination of federal and provincial financial policies.

*Prerequisite:* AS/ECON 1000 3.0 and AS/ECON 1010 3.0.

**AS/ECON 3310 3.0 Development Economics I.** Studies the basic causes of economic retardation in the Third World. Covers: characteristics of economic underdevelopment; poverty, income and wealth distribution; rural vs. urban development; population growth, unemployment and migration; the role of capital, labour and technology in development.

*Prerequisite:* AS/ECON 1000 3.0 or AS/ECON 1010 3.0 or AS/ECON 1900 3.0, or equivalents.

*Degree credit exclusion:* AK/ECON 3550 3.0.

**AS/ECON 3320 3.0 Development Economics II.** Studies the policies and institutions for overcoming economic retardation in the Third world. Covers

strategies of growth and development; government intervention, planning and private enterprise; fiscal and monetary policies; domestic market vs. export orientation; domestic vs. foreign investment; international trade and indebtedness.

*Prerequisite:* AS/ECON 1000 3.0 or AS/ECON 1010 3.0 or AS/ECON 1900 3.0, AS/ECON 3310 3.0, or equivalents.

*Degree credit exclusion:* AK/ECON 3560 3.0.

**AS/ECON 3350 3.0 Economic Theories of Entrepreneurship.** This course covers materials on various economic theories of entrepreneurship, as well as sociological, psychological and cultural theories. Also included are case studies of entrepreneurship in various countries, including Asia Pacific countries, as well as Socialist economies in transition.

*Prerequisite:* AS/ECON 1000 3.0 or AS/ECON 1010 3.0 or AS/ECON 1900 3.0, or permission of the course director.

**AS/ECON 3500 3.0 Introductory Mathematical Statistics for Economists.**

This course provides an introduction to mathematical statistical analysis. Includes distributions of random variables, conditional probability, independence, special distributions, distributions of functions of random variables, moment generating functions, the central limit theorem, estimation and hypothesis testing.

*Prerequisites:* AS/ECON 1530 3.0/1540 3.0, AS/ECON 2500 3.0 or equivalents.

*Degree credit exclusions:* AS/MATH 2030 3.0, SC/ACMS 2020 6.0.

**AS/ECON 3530 3.0 Intermediate Mathematics for Economists I.** This course develops and demonstrates the mathematics commonly used in the analysis of static economic models. Topics range from concavity and convexity to constrained optimization and comparative static analysis including the implicit function and envelope theorems.

*Prerequisites:* AS/ECON 1530 3.0/1540 3.0 or equivalents.

**AS/ECON 3580 3.0 Introductory Financial Accounting for Economists.** An introduction to financial accounting. Focus on financial accounting concepts, principles and practices, with emphasis on questions of asset valuation, income measurement and other issues of particular concern to economists.

*Prerequisites:* AS/ECON 1000 3.0/1010 3.0 or equivalents.

*Degree credit exclusions:* SB/ACTG 2010 3.0, SB/ACTG 2011 3.0, AK/ADMS 2500 3.0, SB/BFND 3200 3.0.

**AS/ECON 3590 3.0 Introductory Managerial Accounting for Economists.** An introduction to managerial accounting. Focus on managerial accounting concepts, principles, and practices, with emphasis on behavioural aspects of accounting control, performance appraisal and other issues of particular concern to economists.

*Prerequisite:* AS/ECON 3580 3.0.

*Degree credit exclusions:* SB/ACTG 3020 3.0, AK/ADMS 2510 3.0, SB/BFND 3200 3.0.

**AS/ECON 3960 3.0 Selected Topics in Economics I.** In any given year additional courses may be offered. Information concerning these will be available at the departmental office in March of the preceding year.

**AS/ECON 3970 3.0 Selected Topics in Economics II.** In any given year additional courses may be offered. Information concerning these will be available at the departmental office in March of the preceding year.

**AS/ECON 4000 3.0 Advanced Microeconomic Analysis.** An examination of important contributions to economic literature.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0 and AS/ECON 2400 3.0/2450 3.0, AS/ECON 3530 3.0, or equivalents or permission of the instructor.

*Degree credit exclusion:* AK/ECON 4010 3.0.

**AS/ECON 4010 3.0 Advanced Macroeconomic Analysis.** An examination of important contributions to economic literature.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0 and AS/ECON 2400 3.0/2450 3.0, or equivalents or permission of the instructor.

*Prerequisite/corequisite:* AS/ECON 3530 3.0.

*Degree credit exclusion:* AK/ECON 4020 3.0.

**AS/ECON 4059 3.0 History of Economic Thought I.** After brief attention to the methodology of economic theory, the course focuses on the theoretical development of classical political economy up to 1870 in the works of the Physiocrats, Smith, Ricardo and Marx. Emphasis on the contrasts and similarities between classical and neoclassical theories.

*Prerequisites or corequisites:* AS/ECON 2300 3.0/2350 3.0 and AS/ECON 2400 3.0/2450 3.0, or equivalents, or permission of the course director.

*Degree credit exclusion:* AK/ECON 4050 3.0.

**AS/ECON 4069 3.0 History of Economic Thought II.** Primary focus on major developments in economic theory since 1870; the emergence of neoclassical general equilibrium theory (especially in the works of Jevons, Menger and Walras) and the development of Keynesian economics as a distinctive theory.

*Prerequisite:* AS/ECON 4059 3.0 or permission of the instructor.

*Degree credit exclusion:* AK/ECON 4060 3.0.

**AS/ECON 4070 3.0 Public Finance I.** Public Finance in Canada; the objectives of economic policy; theories of taxation; economic effects of taxation, with special reference to the Canadian economy.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0 and AS/ECON 2400 3.0/2450 3.0, or equivalents, or permission of the course instructor.

*Degree credit exclusions:* AK/ECON 3450 3.0/3460 3.0.

**AS/ECON 4080 3.0 Public Finance II.** Public finance in Canada theories of public expenditure; public expenditure policies in Canada; problems of multi-level governments including federal-provincial financial relations.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0 and AS/ECON 2400 3.0/2450 3.0, or equivalents, or permission of the course instructor.

*Degree credit exclusions:* AK/ECON 3450 3.0/3460 3.0, AK/ECON 3630 3.0 and AS/ECON 4089 3.0.

**AS/ECON 4110 3.0 Regional Economics.** An examination of the regional dimensions of economic activity; location theory, income determination theory, growth theory and their application to regional economic policy.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0 and AS/ECON 2400 3.0/2450 3.0, or equivalents, or permission of the course instructor.

**AS/ECON 4129 3.0 International Trade Policy and Economic Integration.** The course deals with current policy issues in international trade and economic integration, focusing on specific institutional settings such as NAFTA, the European Union, the World Trade Organization, "new" policy areas such as trade and the environment, trade, and labour rights.

*Prerequisite:* AS/ECON 3150 3.0 or equivalent.

**AS/ECON 4130 3.0 Introduction to Game Theory in Economics.** The course covers the idea of a game, of a solution, the extensive form, the concept of an equilibrium, games of incomplete information, backward and forward induction, repeated games, signaling and principal-agent models, and bargaining models.

*Prerequisite:* AS/ECON 1530 3.0/1540 3.0 or permission of the course director.

**AS/ECON 4190 3.0 International Trade II.** This course covers, at the advanced level, the theories of international trade specialization, gains from trade, commercial policies, and new approaches to trade theory.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0 and AS/ECON 2400 3.0/2450 3.0 or equivalents and AS/ECON 3150 3.0 or equivalents, or permission of the instructor.

**AS/ECON 4200 3.0 International Monetary Economics.** International monetary economics including exchange rates, balance of payments accounts, theories of the balance of payments, monetary policy under fixed and flexible exchange rates, international monetary problems and possible solutions.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0 and AS/ECON 2400 3.0/2450 3.0, or equivalents, or permission of the instructor.

*Degree credit exclusion:* AK/ECON 3580 3.0.

**AS/ECON 4210 3.0 Econometrics.** This first course in econometrics develops the inner regression model. Least squares and maximum likelihood estimators are derived for classical and generalized cases. Hypothesis testing is simultaneously examined. The course stresses theorem proving, diagnostic analysis and careful applied work.

*Prerequisites:* AS/ECON 2500 3.0/3500 3.0 or equivalents, or permission of the course director.

*Degree credit exclusions:* AS/MATH 3033 3.0, AS/MATH 3330 3.0, AK/ECON 3490 3.0.

**AS/ECON 4220 3.0 Econometric Theory.** This course in econometrics examines multiple and simultaneous linear equations models. Time series analysis and other special topics are also considered. The course stresses theorem proving, diagnostic analysis and careful applied work.

*Prerequisites:* AS/ECON 4210 3.0 or equivalent or permission of the course director.

*Degree credit exclusions:* AS/MATH 3034 3.0, AK/ECON 3500 3.0.

**AS/ECON 4239 3.0 Comparative Economic Systems.** Comparative analysis of economic systems in terms of economic goals, organization of production and distribution, and economic performance.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0 and AS/ECON 2400 3.0/2450 3.0 or equivalents, or permission of the course director.

*Degree credit exclusion:* AK/ECON 4100 3.0.

**AS/ECON 4240 3.0 or 4249 3.0 Advanced Topics in Labour Economics.** Trade unions and employers' organizations in the Canadian labour market; design and function of the institutions; worker and employer participation; the processes of conflict and agreement, the regulatory role of the state, the nature of collective agreements and their effect on the labour market and processes of production.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0, AS/ECON 2400 3.0/2450 3.0, AS/ECON 3240 3.0 (or AS/ECON 3249 3.0) or equivalents, or permission of the instructor.

**AS/ECON 4259 3.0 Health Economics.** Addresses major issues regarding the cost and quality of health care, using theoretical and quantitative techniques drawn from welfare economics, project evaluation, microeconomics and financial analysis.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0, AS/ECON 2400 3.0/2450 3.0, AS/ECON 2500 3.0 and AS/ECON 3500 3.0.

*Degree credit exclusions:* AS/ECON 4960A 3.0, AK/ECON 3240 3.0.

**AS/ECON 4269 3.0 Marxian Political Economy.** A study of the pure theory of Capitalism based on Marx's *Das Kapital*.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0 and AS/ECON 2400 3.0/2450 3.0, or equivalents, or permission of the course director.

**AS/ECON 4279 3.0 Housing Economics.** The course examines housing markets and housing policy. Models of demand, supply and housing market equilibrium are developed emphasizing the special characteristics of housing. Welfare economics is used to study the design of optimal policies.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0, or equivalents, or permission of the instructor.

**AS/ECON 4309 3.0 Law and Economics.** This is a course in the interrelationship of law and economics emphasizing the institutional setting of the economic system and the concepts of property rights and transaction costs.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0 or equivalents, or permission of the instructor.

*Degree credit exclusion:* AK/ECON 3800 3.0.

**AS/ECON 4350 3.0 Advanced Topics in Industrial Organization.** This course examines theories pertaining to Industrial Organization, and covers oligopoly, entry, vertical integration, product differentiation, advertising, innovation and market structure, and industrial organization in an open economy. Public policy is discussed where appropriate.

*Prerequisite:* AS/ECON 2300 3.0/2350 3.0, or equivalents, or permission of the course director.

**AS/ECON 4370 3.0 or 4379 3.0 Regulatory Economics.** This course is an introduction to regulatory economics. While it uses problems common to Canadian public utilities for illustrative purposes, it is primarily theoretical in nature. Major areas of concentration are: determination of rate base; determination of rate of return; optimal tariff structure and problems of peak load-pricing.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0, or equivalents, or permission of the course director.

**AS/ECON 4380 3.0 Public Choice Theory: The Economics of Politics.** Public choice theory (the economics of politics) applies basic tools of microeconomics to answer questions central to political science. Special emphasis will be given to analyzing public choice in a direct democracy and in a representative democracy.

*Prerequisites:* AS/ECON 2300 3.0/2350 3.0, or equivalents, or permission of the instructor.

**AS/ECON 4399 3.0 Topics in Law and Economics.** Explores in detail such topics as damages vs. specific performance, liquidation damages vs. penalty clauses, the choice between strict liability and negligence in tort law, the different way different societies have solved the problem of law and order.

*Prerequisites:* AS/ECON 4309 3.0, or permission of the instructor.

**AS/ECON 4400 3.0 Corporate Finance I.** This course provides an introduction to the principles of finance and an examination of the financing and investment decisions of a business firm. Major topics are net present value, capital budgeting, efficiency of capital markets, treatment of risk, valuation of debt, dividend policy, short-term financing and financial strategy.



*Prerequisites: AS/ECON 2300 3.0/2350 3.0, or equivalents, or permission of the course director.*

*Prerequisites or corequisites: AS/ECON 3580 3.0.*

*Degree credit exclusions: AK/ADMS 3530 3.0, AK/ADMS 4540 3.0 and AK/ECON 4080C 3.0.*

**AS/ECON 4410 3.0 Corporate Finance II.** A continuation of AS/ECON 4400 3.0, this course examines topics like dividend policy; capital structure; the valuation corporate debt, other corporate liabilities (including leases) and options; merges, international finance and financial planning.

*Prerequisite: AS/ECON 4400 3.0.*

**AS/ECON 4420 3.0 Topics in Corporate Finance.** Selected topics in the economic analysis of financial markets, including choice-theoretic and statistical aspects of financial models. Possible topics include: intertemporal choice, economics of uncertainty, equilibrium models of money and risky assets, corporate financial policy, and the effects of inflation and taxation.

*Prerequisites: AS/ECON 2300 3.0/2350 3.0, or equivalents, or permission of the instructor.*

*Recommended prior completion: AS/ECON 4400 3.0 and AS/ECON 3500 3.0 or equivalents.*

**AS/ECON 4500 3.0 Canadian Business Law I.** An introduction to business law for Economics students.

*Prerequisites: AS/ECON 1000 3.0 and AS/ECON 1010 3.0 or equivalents.*

*Recommended prior completion: AS/ECON 4400 3.0.*

*Degree credit exclusions: AS/POLS 3165 6.0 and AS/SOSC 3165 6.0, AK/ADMS 3610 3.0.*

**AS/ECON 4510 3.0 Canadian Business Law II.** Advanced Canadian Business Law for Economics students.

*Prerequisite: AS/ECON 4500 3.0, or permission of the course director.*

*Degree credit exclusions: AS/POLS 3165 6.0 and AS/SOSC 3165 6.0, AK/ADMS 3620 3.0.*

**AS/ECON 4619 3.0 Economic Planning and Development in India.** Examines India's economic development under national planning since the fifties. The treatment is historical and analytical in terms of the underlying planning models and methodologies, sectoral goals, strategies and performance. Economic issues are explored in the larger socio-political context.

*Prerequisites: AS/ECON 2300 3.0/2350 3.0, AS/ECON 2400 3.0/2450 3.0, AS/ECON 3310 3.0/3320 3.0 or equivalents, or instructor's permission.*

**AS/ECON 4629 3.0 Distribution and Growth in an Evolving Socialist Economy.** Effective demand in socialist economy is analyzed in conjunction with systemic difficulties. Acceleration of growth and the low efficiency of factors of production an obstacle

to maximization of consumption. Technical progress, its difficulties and constraints. Inflation in socialism, its systemic causes.

*Prerequisites: AS/ECON 2300 3.0/2350 3.0 or equivalent.*

**AS/ECON 4960 3.0 or 4969 3.0 Selected Topics in Economics I.** In any given year, additional courses may be offered. Information concerning these will be available at the departmental office in March of the preceding year.

**AS/ECON 4970 3.0 Selected Topics in Economics II.** In any given year additional courses may be offered. Information concerning these will be available at the departmental office in March of the preceding year.

**AS/ECON 4980 3.0 or 4989 3.0 Guided Research I.** This course permits students to undertake special programs of private studies under the guidance of any instructor.

*Prerequisites: AS/ECON 2300 3.0/2350 3.0, AS/ECON 2400 3.0/2450 3.0, or equivalents.*

*Note: Consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

**AS/ECON 4990 3.0 or 4999 3.0 Guided Research II.** This course permits students to undertake special programs of private studies under the guidance of any instructor.

*Prerequisites: AS/ECON 2300 3.0/2350 3.0, AS/ECON 2400 3.0/2450 3.0, or equivalents.*

*Note: Consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

## Economics and Business – Arts

### Program Office:

**(Department of Economics)**

1144 Vari Hall, 416-736-5322

### Director of the Program:

G.H. McKechnie

### Professors:

E. Appelbaum, L. Danziger, S. Donnerfeld, E. Katz, J. Landa, C. Plourde, J. Smithin

### Professors Emeriti:

J.A. Buttrick, G.V. Doxey, H. Flakierski, F. Lefebvre, P. Medow, J. Ridpath, A.J. Robinson, H. Schwartz, T. Sekine, R. Thakkar

### Associate Professors:

M. Anam, J. Beare, S. Bucovetsky, K. Carpenter, M.D.G. Copeland, S.H. Chiang, A. Cohen, G. Fallis, R. Grinspun, A. Haug, W.M. Ho, N. Jazairi, R. Latham, F. Lazar, K.C. Lo, A. Mansoorian, G.H. McKechnie, R. Rilstone, A.A. Shapiro, J.B. Smith

### Assistant Professors:

T. Crossley, R.K. House, J. Jasiak, T.J. Kim, K. MacKinnon

*Note: For specific requirements of this program, consult the Faculty of Arts "Programs of Study" section.*

## Departmental and Divisional Courses in Economics and Business

*Note: Not all courses will be offered in any given year. For details of courses to be offered refer to the current Lecture Schedule, the program office, or the supplemental calendar for the Coordinated program in Business, Public Policy and Administrative Studies, available in the Economics Undergraduate Records Office.*

### Prerequisite Courses

AS/ECON 1000 3.0 Introduction to Microeconomics, or equivalent.

AS/ECON 1010 3.0 Introduction to Macroeconomics, or equivalent.

AS/ECON 1530 3.0 Introductory Mathematics for Economists I, or equivalent.

AS/ECON 1540 3.0 Introductory Mathematics for Economists II, or equivalent.

### Core Courses

AS/SC/AK/COSC 1520 3.0/1530 3.0 Introduction to Computer Use I and II

or

AS/SC/AK/COSC 1020 3.0/1030 3.0 Introduction to Computer Science I and II.

AS/ECON 3580 3.0 Introductory Financial Accounting for Economists.

AS/ECON 3590 3.0 Introductory Managerial Accounting for Economists.

AS/ECON 2300 3.0 Intermediate Microeconomics Theory I.

AS/ECON 2350 3.0 Intermediate Microeconomics Theory II.

AS/ECON 2400 3.0 Intermediate Macroeconomics Theory I.

AS/ECON 2450 3.0 Intermediate Macroeconomics Theory II.

AS/ECON 2500 3.0 Introductory Statistics for Economists (or approved equivalent courses).

AS/ECON 3500 3.0 Introductory Mathematical Statistics for Economists (or approved equivalent courses).

AS/ECON 3140 3.0 Monetary Economics.

AS/ECON 4200 3.0 International Monetary Economics.

AS/ECON 4400 3.0 Corporate Finance I.

AS/ECON 4500 3.0 Canadian Business Law I.

AS/MATH 2580 6.0 Mathematics of Investment and Actuarial Science.

### Areas of Concentration

Students will select at least 18 credits from one of the following areas of concentration:

#### 1. Business Mathematics

##### Computer Science Option

The General Prerequisites for AS/AK/SC/COSC 2001 3.0, AS/AK/SC/COSC 2011 3.0 and AS/AK/SC/COSC 2021 3.0 are: AS/AK/SC/COSC 1020 3.0/1030 3.0 or equivalent; AS/AK/SC/MATH 1090 3.0 or equivalent; and a cumulative grade-point average of at least 4.5 on all completed Computer Science courses.



The General Prerequisites for 3000-level COSC courses are: AS/AK/SC/COSC 2011 3.0 or equivalent; one of AS/AK/SC/COSC 2001 3.0, AS/AK/SC/COSC 2021 3.0, or AS/AK/SC/COSC 2031 3.0, or equivalent; AS/AK/SC/MATH 1300 3.0 and AS/AK/SC/MATH 1310 3.0 or equivalent; one of AS/AK/SC/MATH 2090 3.0, AS/AK/SC/MATH 2221 3.0, AS/AK/SC/MATH 2320 3.0, AK/MATH 2442 3.0, or equivalent; and a cumulative grade-point average of at least 4.5 on all completed Computer Science courses. For specific course prerequisites, please refer to the Computer Science listings in the 'Courses of Instructions' section of this Calendar.

The General Prerequisites for 4000-level COSC courses are: AS/AK/SC/COSC 2001 3.0 or equivalent; AS/AK/SC/COSC 2011 3.0 or equivalent; AS/AK/SC/COSC 2021 3.0 or AS/AK/SC/COSC 2031 3.0 or equivalent; at least 12 credits in Computer Science at the 3000-level; AS/AK/SC/MATH 2090 3.0 or equivalent; and a cumulative grade-point average of at least 4.5 on all completed Computer Science courses. For specific course prerequisites, please refer to the Computer Science listings in the 'Courses of Instructions' section of this Calendar.

*Note: To satisfy the prerequisites for courses in Operations Research and Actuarial Mathematics students may, with the permission of the Director of the Program, substitute AS/MATH 1300 3.0/1310 3.0 plus AS/MATH 2221 3.0 for AS/ECON 1530 3.0/1540 3.0 as part of their program prerequisite course requirements.*

AS/COSC 2001 3.0 Introduction to Theory of Computation.  
AS/COSC 2011 3.0 Fundamentals of Data Structures.  
AS/COSC 2021 3.0 Computer Organization.  
AS/COSC 3101 3.0 Design and Analysis of Algorithms.  
AS/COSC 3121 3.0 Introduction to Numerical Computations I.  
AS/COSC 3122 3.0 Introduction to Numerical Computations II.  
AS/COSC 3211 3.0 Data Communication.  
AS/COSC 3212 3.0 Computer Networks.  
AS/COSC 3311 3.0 Software Design.  
AS/COSC 3331 3.0 Object-Oriented Programming and Design.  
AS/COSC 3341 3.0 Introduction to Program Verification.  
AS/COSC 3402 3.0 Introduction to Concepts of Artificial Intelligence.  
AS/COSC 3408 3.0 Simulation of Discrete Systems.  
AS/COSC 3418 3.0 Simulation of Continuous Systems.  
AS/COSC 3421 3.0 Introduction to Database Systems.  
AS/COSC 4111 3.0 Automata and Computability.  
AS/COSC 4401 3.0 Artificial Intelligence.  
AS/COSC 4411 3.0 Database Management Systems.  
AS/COSC 4431 3.0 Computer Graphics.  
AS/COSC 4441 3.0 Human-Computer Interaction.

#### Econometrics/Mathematics Option

AS/ECON 4210 3.0 Econometrics.  
AS/ECON 4220 3.0 Econometric Theory.  
AS/MATH 3170 6.0 Operations Research I.  
AS/MATH 3280 6.0 Actuarial Mathematics.

AS/MATH 4170 6.0 Operations Research II.

## 2. Financial Analysis

AS/ECON 3200 3.0 Industrial Organization.  
AS/ECON 3240 3.0 or 3249 3.0 Labour Economics — Theory.  
AS/ECON 3250 3.0 or 3259 3.0 Labour Economics — Institutions.  
AS/ECON 4070 3.0 Public Finance I.  
AS/ECON 4080 3.0 Public Finance II.  
AS/ECON 4210 3.0 Econometrics.  
AS/ECON 4410 3.0 Corporate Finance II.  
AS/ECON 4420 3.0 Topics in Corporate Finance.  
AS/ECON 4510 3.0 Canadian Business Law II.  
Notes concerning Atkinson Administrative Studies courses: The prerequisite for most Atkinson Administrative Studies courses listed below (AK/ADMS) is AK/ADMS 2000 6.0, or AK/ADMS 1000 3.0, or AK/ADMS 2000 3.0.  
AK/ADMS 3510 3.0 Managerial Cost Accounting and Analysis.  
AK/ADMS 3585 3.0/3595 3.0 Intermediate Financial Accounting I and II.  
AK/ADMS 4510 3.0 Contemporary Issues in Accounting.  
AK/ADMS 4520 3.0/4530 3.0 Advanced Financial Accounting I and II.  
AK/ADMS 4551 3.0 The Audit Process.  
AK/ADMS 4552 3.0 The External Audit.  
AK/ADMS 4553 3.0 Auditing: Advanced Topics.  
AK/ADMS 4561 3.0 Taxation of Personal Income in Canada.  
AK/ADMS 4562 3.0 Corporate Income Taxation in Canada.  
AK/ADMS 4570 3.0 Management Planning and Control Systems.

## 3. International Economics and Business

AS/ECON 3310 3.0 Development Economics I.  
AS/ECON 3320 3.0 Development Economics II.  
AS/ECON 3089 3.0 Economic History of the US: 1640-1860.  
AS/ECON 3099 3.0 Economic History of the US: 1860-1940.  
AS/ECON 3150 3.0 International Trade I.  
AS/ECON 4190 3.0 International Trade II.  
AS/ECON 4210 3.0 Econometrics.  
AS/ECON 4239 3.0 Comparative Economic Systems.  
AS/ECON 4619 3.0 Economic Planning and Development in India.  
AS/ECON 4629 3.0 Distribution and Growth in an Evolving Socialist Economy.  
AS/POLS 2210 6.0 Introduction to International Relations.  
AS/POLS 3270 3.0 Global Political Economy I.  
AS/POLS 3275 3.0 Global Political Economy II.  
AS/POLS 4290 3.0 Topics in International Political Economy.  
AS/POLS 4291 3.0 Capital and Power in Global Political Economy.

**Language Option:** six credits above the 1000 level in French Studies or in Languages, Literatures and Linguistics from an approved list published each year by the program.

**History Option:** six credits above the 2000 level in modern history from an approved list published each year by the program.

## 4. Labour Relations

AS/ECON 3240 3.0 or 3249 3.0 Labour Economics - Theory.  
AS/ECON 3250 3.0 or 3259 3.0 Labour Economics - Institutions.

And 12 credits selected from:

AS/ECON 4210 3.0 Econometrics.  
AS/ECON 4240 3.0 Advanced Topics in Labour Economics.  
AS/HIST 3531 6.0 Working Class in Canadian Society (Cross-listed to: AS/SOSC 3210 6.0).  
AS/SOSC 2210 9.0 Labour Relations in Canada.  
AS/SOSC 3130 6.0 Women and Work: Production and Reproduction (Cross-listed to: AS/AK/GL/W MST 3510 6.0, AK/SOSC 3380 6.0).  
AS/SOSC 3311 6.0 Communication in Organizations.  
AS/SOSC 3380 6.0 Law, Labour and the State.  
AS/SOSC 4210 6.0 Collective Bargaining Simulation.  
AS/SOCI 3600 3.0 The Sociology of Work and Industry.  
AS/SOCI 3610 3.0 Sociology of Occupations and Professions.  
AS/SOCI 3620 6.0 Formal Organizations.

## 5. Public Policy

AS/ECON 3069 3.0 Canadian Economic Development Until the 1870s.

*Degree credit exclusions: AS/HIST 3560 3.0, AK/ECON 3670 6.0.*

AS/ECON 3079 3.0 Canadian Economic Development After 1870.

*Degree credit exclusions: AS/HIST 3561 3.0, AK/ECON 3670 6.0.*

AS/ECON 3200 3.0 Industrial Organization.  
AS/ECON 3230 3.0 Urban Economics.  
AS/ECON 4070 3.0 Public Finance I.  
AS/ECON 4080 3.0 Public Finance II.  
AS/ECON 4110 3.0 Regional Economics.  
AS/ECON 4210 3.0 Econometrics.  
AS/ECON 4220 3.0 Econometric Theory.  
AS/ECON 4259 3.0 Health Economics.  
AS/ECON 4279 3.0 Housing Economics.  
AS/ECON 4309 3.0 Law and Economics.  
AS/ECON 4350 3.0 Advanced Topics in Industrial Organization.  
AS/ECON 4380 3.0 Public Choice Theory: The Economics of Politics.  
AS/ECON 4399 3.0 Topics in Law and Economics.  
AS/ECON 4510 3.0 Canadian Business Law II.  
AS/HIST 3510 6.0 Canada: The Making of a Nation.  
AS/HIST 3561 3.0 Business and Government in Canada since Confederation.

*Degree credit exclusions: AS/ECON 3069 3.0/3079 3.0.*

AS/HIST 3591 6.0 Politics, Law and the Constitution in Modern Canada.  
AS/HIST 4520 6.0 The Persistence of Nationalism in Quebec.  
AS/HIST 4550 6.0 Ontario in the 20th Century.

AS/HIST 4530 6.0 The Development of Toronto.  
 AS/POLS 2610 6.0 Public Policy and Administration.  
 AS/POLS 3110 3.0 Process of Urban Politics I.  
 AS/POLS 3115 3.0 Process of Urban Politics II.  
 AS/POLS 3140 3.0 Political Economy of Labour in Canada.  
 AS/POLS 3175 3.0 Provincial Politics.  
 AS/POLS 4120 3.0 Ontario and Quebec.  
 AS/POLS 4160 6.0 Political Economy of Regionalism.  
 AS/POLS 4290 3.0 Topics in International Political Economy.  
 AS/POLS 4291 3.0 Capital and Power in Global Political Economy.

With the approval of the coordinator of the program, students may design their own area of concentration; such courses may be drawn from the offerings of any of the undergraduate Faculties.

## Education

### General Information:

York Campus, S835 Ross, 416-736-5001

### Administrative Officers:

TBA, Dean; D. Diplo, Associate Dean (Pre-service); A. Griffith, Associate Dean (Field Development); TBA, Director, Graduate Program in Education; B. Denman, Coordinator, Education of Deaf and Hard of Hearing Students; M. Perry, Director of Student Programs

### Professors:

D. Britzman, G. Bunch, C. Ewoldt,  
 L. Heshusius, R. Owston, P. Rogers,  
 S. Shapson

### Professors Emeriti:

M. McCarthy, S. Robbins

### Associate Professors:

S. Alsop, J. Bell, D. Cook, W. Crichlow,  
 D. Diplo, E. Fine, A. Griffith, C. Haig-Brown,  
 M. Hughes, N. Israelite, C. James, D.  
 Khayatt, H. Lotherington, J. Mannette, M.  
 Morbey, S. Murphy, N. Norquay,  
 G. Orpwood, R. Sanaoui, S. Schechter,  
 H. Smaller, P. Solomon, K. Stanworth, C.A.  
 Wien, D. Yon

### Associate Professor Emeritus:

S. Eden

### Assistant Professors:

R. Dunlop, S. Gaetz, I. Killoran, D. Mason,  
 A. Pitt, A. Pomson, J. Sheridan, S. Todd

## Host School Boards

Dufferin-Peel Catholic District School Board  
 Durham District School Board  
 Durham Catholic District School Board  
 Halton District School Board  
 Halton Catholic District School Board  
 Peel District School Board  
 Simcoe District School Board  
 Simcoe Catholic District School Board  
 Toronto Catholic District School Board  
 Toronto District School Board  
 York Region District School Board  
 York Catholic District School Board  
 Board of Jewish Education

## Course Numbering

Letter prefixes are used in each course to identify the Faculty of Education (ED) and the subject area of the course (PRJM – Primary-Junior Math; VISA – Visual Arts). A typical course number reads as follows ED/PRJM 3030 3.0 – Primary-Junior Math practicum/seminar.

The majority of courses offered by the Faculty of Education are practicum/seminars. They involve teaching experience in schools as well as a weekly seminar on campus. For all practicum/seminars, the third digit of the course number denotes the school division level of the practicum:

- 3020 - Junior and Intermediate Divisions
- 3030 - Primary and Junior Divisions
- 3040 - Intermediate Division
- 3050 - Senior Division

All courses are numbered at the 3000 level other than the Education I Common Year courses and ED/HEB 2030 3.0.

*Note: The Faculty reserves the right not to offer courses in particular sessions without advance notice.*

## Course Descriptions

**ED/BIOL 3040 3.0 Teaching Biology in the Intermediate Division.** A theoretical and practical introduction to instruction in Intermediate Division biology including a consideration of methods and materials in a laboratory or field setting.

**ED/BIOL 3050 3.0 Teaching Biology in the Senior Division.** A theoretical and practical introduction to instruction in Senior Division biology including a consideration of methods and materials in a laboratory or field setting.

**ED/CHEM 3040 3.0 Teaching Chemistry in the Intermediate Division.** Methods and materials suited to the teaching of science in the Intermediate Division are emphasized.

**ED/CHEM 3050 3.0 Teaching Chemistry in the Senior Division.** Methods and materials suited to the teaching of science in the Senior Division are emphasized.

**ED/CMYR 2000 6.0 Common Year Practicum/Seminar.** This practicum/seminar, an introduction to education, gives an overview of school curricula with particular emphasis on the integration of various subjects. Investigation and observation of child development and teaching and learning styles are integral components. The practicum provides opportunities for candidates to apply and experience teaching techniques in classroom situations. Seminars include opportunities for discussion and application of both educational theory and practice.

**ED/CMYR 2400 3.0 Communication and the Education Process.** This course focuses on the nature of communication in pluralistic societies, that is, in societal contexts characterized by linguistic and cultural diversity. Emphasis is on the social uses of

speaking and writing and interpreting what is being communicated in school and classroom settings. Course content and organization are premised on a developmental and sociolinguistic viewpoint toward communication that recognizes the interdependence of language with cultural and social structures.

**ED/CMYR 2500 3.0 Socialization and Human Development.** This course reviews modern theories of child development and developmentalism more generally as an approach to understanding thinking, learning and identity formation. Curricular and pedagogical implications for students and teachers as learners are explored. Complementary and/or alternative perspectives and critiques of developmentalism including those originating in sociology, feminism, indigenous and ecological world views, psychoanalysis and postmodernism may also be considered.

**ED/COST 3040 3.0 Teaching Computer Studies in the Intermediate Division.** An examination of the computer studies curriculum of the Intermediate Division and of the methods, hardware and software used to teach it. Course design and evaluation are also considered.

**ED/COST 3050 3.0 Teaching Computer Studies in the Senior Division.** Building upon the knowledge and experience gained in ED/COST 3040 3.0 and the Intermediate practicum, this course examines methods and materials suitable for teaching Computer Studies in the Senior Division.

**ED/DANC 3040 3.0 Teaching Dance in the Intermediate Division.** The philosophy, methods and materials associated with teaching Dance in the Intermediate Division with a focus on lesson and unit planning and evaluation.

**ED/DANC 3050 3.0 Teaching Dance in the Senior Division.** The philosophy, methods and materials associated with teaching Dance to the adolescent. The course focuses on developing skills in teaching technique in several dance forms.

**ED/DEVO 2500 3.0 Human Development through Fine Arts.** The stages of human development are explained with respect to multiple intelligences, with emphasis on imaginal development through the Fine Arts. This course is a theoretical and practical study of how precepts and concepts of self and other are developed in adolescence through poetry, drama, dance, music and the visual arts. Required of all, and open only to, students in the consecutive program in Fine Arts Education (J/I).

**ED/DRAM 3040 3.0 Teaching Dramatic Arts in the Intermediate Division.** This course provides a theoretical/practical approach to the teaching of dramatic arts and the use of dramatic arts as a cross-curricular tool at the Intermediate level.

**ED/DRAM 3050 3.0 Teaching Dramatic Arts in the Senior Division.** This course builds upon the theory and practice gained in ED/DRAM 3040 3.0. The course emphasizes the teaching and use of drama in the classroom at the Senior level.

**ED/EDUC 3000 3.0 Teaching Religious Education in the Catholic Schools.** Using a combination of theology and appropriate teaching processes, this course prepares candidates in the elementary and secondary levels to teach religious education in the Catholic Schools. Candidates study and reflect theologically on the basic phenomenon of religion as a human search for the absolute and for meaning in life. An examination of Catholicism as revelation in history which replies to, challenges, criticizes and deepens one's own basic search involves candidates in a study of the core content of the Christian mystery which they are to teach in the classroom. Confluent educational methods and curriculum programs are examined and practised in seminars.

*Note: No tuition fees for those candidates for whom this course constitutes an Education credit beyond the 30 credit minimum requirement. EDUC 3000 3.0 is a requirement for employment with the Toronto Catholic District School Board. Please check whether this is a requirement for other Catholic Boards where employment is being sought.*

**ED/EDUC 3310 3.0 The Adolescent and the Teacher.** This course addresses a range of issues related to teaching and learning in a secondary school environment. Theories of adolescent development, identity formation, social and cultural production and reproduction are examined with specific reference to high school curriculum and pedagogy. Of particular interest are contemporary perspectives on the relationship between identity formation and popular culture and the implications of these perspectives for high school teachers.

**ED/EDUC 3400 3.0 Models of Education.**

This interdisciplinary course explores the interrelationships among theories of knowledge, theories of learning, conceptions of curriculum and approaches to pedagogy in the context of a broad inquiry into the aims and purposes of schooling. Emphasis is placed on the analysis and critique of fundamental commitments and underlying assumptions of various approaches to education.

**ED/ENGL 3040 3.0 Teaching English in the Intermediate Division.** The emphasis in this course includes methods and techniques for the improvement of reading, writing, listening and speaking skills and the teaching of literature, creative writing, theatre arts and grammar. Candidates also study the evaluation of student writing at the Intermediate level.

**ED/ENGL 3050 3.0 Teaching English in the Senior Division.** This course continues in more depth genre studies outlined in ED/ENGL 3040 3.0, focusing on poetry, fiction, drama and expressive writing. There is further emphasis on pedagogic techniques especially suitable for teaching literature. Candidates also consider methods of teaching grammar and composition, the evaluation of student writing at the secondary school level and the design of aspects of curriculum.

**ED/FINA 3330 6.0 Social Foundations of Fine Arts Education.** An historical, philosophical, sociological and comparative context for understanding the theory and practice of fine arts education at the elementary and secondary levels. Emphasized are concepts and principles relevant to the fine arts within the current Ontario system as well as classroom practice of education in the fine arts: in particular, issues of equity in education, the role of the arts in broadening conceptions of culture relevant to student, teacher and community. Requisite materials on Ontario school law and administration as well as rights and responsibilities are included.

**ED/FINA 2400 3.0 The Arts and Ideas in Education.** The course will provide an approach to Communication and the Education Process, ED/CMYR 2400 3.0, with a special focus on the fine arts. It will build on each student's individual experiences in a particular area of fine arts education (dance, drama, music, or visual arts) as developed in his/her practicum seminar amplifying these experiences to comprise the other arts.

**ED/FNDS 3330 3.0 Aspects of the Foundations of Education.** This interdisciplinary course examines the social, historical and political context of education in general with specific reference to the development of systems of compulsory public schooling in Canada. The relationships among formal education, economic inequality and social reform are explored. Requisite materials on Ontario school law, school organization and administration, professional rights and responsibilities, and the role of teachers' federations are included.

**ED/FREN 3040 3.0 Teaching French in the Intermediate Division.** A theoretical and practical introduction to second language pedagogy with special emphasis on the methods and materials used to teach and test the four language skills. Performance and application are stressed through micro-teaching and instructional materials preparation.

**ED/FREN 3050 3.0 Teaching French in the Senior Division.** Theoretical and practical work in second language pedagogy at the secondary school level, with special emphasis on testing, evaluation and the integration of culture into the language program. Familiarization with Ministry-approved texts.

**ED/GEOG 3040 3.0 Teaching Geography in the Intermediate Division.** Methods and materials suited to the teaching of geography at the Intermediate level are examined along with study topics such as lesson and unit planning, evaluation and field trips.

**ED/GEOG 3050 3.0 Teaching Geography in the Senior Division.** Building upon ED/GEOG 3040 3.0 and the Intermediate practicum, this course examines methods and materials suitable for Senior Division Geography.

**ED/HEB 2030 3.0 Teaching Hebrew and Jewish Studies I.** An introduction to the Jewish community of Canada and its school system, as well as to methods of teaching Hebrew as a second language, Hebrew reading, customs and ceremonies.

*Note: Open to candidates in Judaic Studies Option.*

**ED/HEB 3030 3.0 Teaching Hebrew and Jewish Studies II.** A seminar in the teaching of Hebrew as a second language, Hebrew literature, Bible and Biblical Hebrew, and prayers in the Jewish schools and in individualizing of instruction and small group activities.

*Note: Open to candidates in the Judaic Studies Option.*

**ED/HIST 3040 3.0 Teaching History in the Intermediate Division.** Candidates analyze the history curriculum of the Intermediate Division and study the resources and methods needed to implement it imaginatively in units and in individual lessons.

**ED/HIST 3050 3.0 Teaching History in the Senior Division.** An examination of the history curriculum of the Senior Division and of the methods and materials that could be used to teach it. Curriculum design and evaluation are also considered.

**ED/IMST 3040 6.0 Teaching Mathematics, Science and Technology in the Intermediate Division.** This course provides a practical and conceptual introduction to the teaching of mathematics, science and technology to students in grades 7 through 10. It is designed to assist teacher candidates to develop their knowledge and skills as reflective teachers, as well as familiarize them with issues of equity.

**ED/INDS 3900 3.0/3900 6.0 Independent Study.** This course provides supervised study for candidates with a special interest. The course should be arranged with one's adviser and an appropriate course director, and is subject to the approval of the Curriculum Committee of the Faculty. Submissions of Independent Study course approval requests must be made to the Curriculum Committee by February 28 of the academic year preceding the intended year of enrolment.

**ED/INLE 2200 3.0 Inquiries into Learning.** Drawing on several fields of study, this course explores two questions: What theories of learning influence pedagogical structures? How have theories of learning affected understandings of ourselves and others, thinking about conditions for learning, and the imperatives of institutions and communities. 15 hours of field study/practicum are required.

*Note: This course should be taken in ED I.*

**ED/INSL 2300 3.0 Inquiries into Schooling.** Forms of schooling across a range of historical and contemporary contexts are introduced. Central considerations include what counts as school knowledge, the assumptions

undergirding schooling conventions, and the ways these conventions are instantiated. 40 hours of field study/practicum are required.

*Note: This course should be taken in ED II.*

**ED/INSO 3040 3.0 Teaching Individual and Society in the Intermediate Division.** Methods and materials suited to teaching Individual and Society at the Intermediate Division level are examined along with the study of lesson and unit planning and evaluation.

**ED/INSO 3050 3.0 Teaching Individual and Society in the Senior Division.** Methods and materials suited to teaching individual and Society at the Senior Division level are examined along with the study of lesson and unit planning and evaluation.

**ED/INTG 3020 3.0 Integration Through the Arts in the Junior/Intermediate Divisions.** This course provides a study of the pedagogy, theory and practice related to the teaching of integrated fine arts in the classroom. Candidates will study and apply in their practicum settings the teaching of a range of core subjects at the grades 4-8 level, with special emphasis on the role of arts as a resource for integrating and teaching a range of subject matter.

**ED/ITAL 3040 3.0 Teaching Italian in the Intermediate Division.** This course deals with the teaching of the four language skills at a beginner's level, with emphasis on developing communicative competence. Different theoretical and practical aspects of second language pedagogy are covered: various methods of language teaching, preparation of diversified teaching material, classroom techniques, integration of culture into the language program, testing and evaluation. Special attention is given to the problem of teaching standard Italian to dialect speakers. Candidates become familiar with Ministry approved texts.

**ED/ITAL 3050 3.0 Teaching Italian in the Senior Division.** This course builds upon and extends knowledge and experience gained in ED/ITAL 3040 3.0.

**ED/JICO 3020 3.0 Teaching and Curriculum in the Junior/Intermediate Divisions.** Candidates study and apply in their practicum settings the teaching of a range of core subjects at the Grades 4 to 8 level, with special emphasis on Grades 7 and 8. Attention is given to the highlights of curriculum and pedagogy in various subject areas, with emphasis on the integration of subjects within the Intermediate curriculum. Attention is also given to socio-emotional and cognitive issues in early adolescence.

**ED/JILA 3020 3.0 Teaching Language in the Junior/Intermediate Divisions.** This course is intended to develop an understanding of how students in the Junior and Intermediate divisions gain facility in reading, writing, speaking and listening. The focus is on

exploring current thinking about the language processes and the implications of these insights for instructional practice.

**ED/JIMA 3020 3.0 Teaching Mathematics in the Junior/Intermediate Divisions.** A study of methods for teaching mathematics in the Junior and Intermediate divisions. Emphasis is placed on the use of materials, relating mathematics to the rest of the curriculum and developmental stages of students.

**ED/JMST 3020 3.0 Teaching Mathematics, Science and Technology in the Junior Division.** This course provides a practical and conceptual introduction to the teaching of mathematics, science and technology to students in grades 4 through 6. Emphasis is placed on the importance of students' mathematical and scientific understanding.

**ED/MATH 3040 3.0 Teaching Mathematics in the Intermediate Division.** The practicum is concerned with assessing students' needs, creating and implementing projects to satisfy these needs, and evaluating their success. The seminar supplements the practicum by discussing materials, resources and methods suited to mathematics teaching.

**ED/MATH 3050 3.0 Teaching Mathematics in the Senior Division.** This course builds upon and extends knowledge and experience gained in ED/MATH 3040 3.0. In addition, various themes (e.g. applications, cultural aspects of mathematics) and their relation to the classroom experience may be discussed.

**ED/MUSI 3040 3.0 Teaching Music in the Intermediate Division.** This course examines the philosophy and methods of music education in relation to students in the Intermediate Division.

**ED/MUSI 3050 3.0 Teaching Music in the Senior Division.** Building upon ED/MUSI 3040 3.0 and the Intermediate practicum, this course examines methods suitable for Senior Division music.

**ED/PHED 3040 3.0 Teaching Physical Education in the Intermediate Division.** This course develops a point of view about the teaching of physical education by considering ways in which children learn, and stages in their growth and development. It relates these to the Intermediate Division curriculum and to program content and lesson planning.

**ED/PHED 3050 3.0 Teaching Physical Education in the Senior Division.** This course extends the philosophy developed in the Intermediate practicum to the Senior Division. In addition, it emphasizes psychological aspects of learning, the teaching of health, administration of classes and the use of a variety of teaching styles.

**ED/PHYS 3040 3.0 Teaching Physics in the Intermediate Division.** A survey of modern physics curriculum, selection of teaching aids, materials and resources in physics instruction,

design of modern physics laboratory program, and discussion of current research in teaching high school physics.

**ED/PHYS 3050 3.0 Teaching Physics in the Senior Division.** This course builds upon and extends knowledge and experience gained in ED/PHYS 3040 3.0.

**ED/PJEP 3400 6.0 Teaching as Reflective Practice: Research Project.** This course provides an opportunity for candidates with Early Childhood Education diplomas within the Faculty of Education to generate a research project focused on teaching and learning. Using qualitative methods, the project will promote close examination of classroom practices as well as address issues of equity in the classroom as a route to expanding understanding and performance in teaching.

**ED/PJFA 3500 3.0 Integrated Fine Arts.** This course is designed to provide Teacher Candidates with a basic understanding of, and appreciation for, the components of an integrated fine arts program, that is, visual art, music, drama and dance. The main focus will be integration of the arts into the curriculum as a central and essential element of education for all children and will include issues of equity. Candidates will have the opportunity to develop personal as well as professional skills in fine arts.

**ED/PJIE 3500 3.0 Inclusive Education in the Primary/Junior Divisions.** An introduction to the policy and practice of inclusive education as it is presented in Ontario schools will be provided in this course. Candidates will have an opportunity to select a focus for inquiry and work directly with students to explore inclusive education in a broad sense.

**ED/PJLC 3500 3.0 Literacy and Culture.** This course investigates how children become literate and addresses issues of second language learning and culture in literacy development. It will pursue successful practices for literacy development while exploring issues of diversity.

**ED/PJMS 3500 3.0 Mathematics, Science and Technology.** This course will examine how to incorporate mathematics, science and technology as basic dimensions of a balanced, equitable curriculum. The relationship of these disciplines to ecological literacy will be a major emphasis throughout the course.

**ED/PRIJ 3030 6.0 Teaching and Curriculum in the Primary/Junior Divisions.** Building upon the extensive practicum experience of the preceding practicum courses, candidates study and practice the teaching of subjects in the elementary curriculum, such as music, physical education, science, social studies and visual arts. Integration of different subjects within the curriculum is emphasized. Further emphasis is placed on the improvement of the candidate's observation and enquiry skills.

**ED/PRJL 3030 3.0 Teaching Language in the Primary/Junior Divisions.** This course is intended to develop an understanding of how children in the Primary and Junior divisions gain facility in reading, writing, speaking and listening.

The focus is on exploring current thinking about the language processes and the implications of these insights for instructional practice.

**ED/PRJM 3030 3.0 Teaching Mathematics in the Primary/Junior Divisions.** A study of methods for teaching mathematics in the elementary school. Emphasis is placed on the use of materials, relating mathematics to the rest of the curriculum and developmental stages of students.

**ED/RELS 3040 3.0 Teaching Religious Studies in the Intermediate Division.** An examination of the Religious Study curriculum in the Intermediate Division and of the methods and materials available to support Religious Studies. Course design and evaluation are considered.

**ED/RELS 3050 3.0 Teaching Religious Studies in the Senior Division.** Building upon knowledge and experience gained in ED/RELS 3040 3.0, this course examines methods and materials suitable for teaching Religious Studies in the Senior Division.

**ED/SCIE 3040 3.0 Teaching Science in the Intermediate Division.** An introduction to the philosophy, methods and materials of science instruction, with attention to the science curriculum, laboratory instruction and safe laboratory practices.

**ED/SCIE 3050 3.0 Teaching Science in the Senior Division.** This course extends the philosophy, methods and materials of science instruction developed in the Intermediate practicum to the Senior Division.

**ED/URED 3300 6.0 Urban Education.** This course focuses on issues related to schooling in settings characterized by diversity particularly related to socio-economic status, ethnicity, race, culture and citizenship (i.e. immigrant or refugee). It is intended for teacher candidates doing their practicum within the Westview Family of Schools.

**ED/VISA 3040 3.0 Teaching the Visual Arts in the Intermediate Division.** This course examines the philosophy and methods of art education in relation to students in the Intermediate Division. Curriculum development, the organization and evaluation of lessons, learning resources and materials, problems in art education, and strategies of art teaching are among the pertinent areas studied. Other areas of concern are determined by the interaction of the instructors, adjunct professors and candidates. Faculty lectures, candidate presentation, assigned readings, class discussions, and visiting artists and educators contribute to the exchange of knowledge.

**ED/VISA 3050 3.0 Teaching the Visual Arts in the Senior Division.** This course examines the philosophy and methods of art education in relation to students in the Senior Division. Curriculum development, the organization and evaluation of lessons, learning resources and materials, problems in art education and strategies of art teaching are among the pertinent areas studied. Other areas of concern are determined by the interaction of the instructors, adjunct professors and candidates. Faculty

lectures, candidate presentations, assigned readings, class discussions and visiting artists and educators contribute to the exchange of knowledge.

**ED/VISA 3200 6.0 Teaching the Visual Arts in the Primary and Junior Divisions.** This hands-on, practical course focuses on methods of teaching, planning and assessing visual arts. Through challenges in drawing, painting, sculpture and printmaking, teacher participants examine the elements and principles of design, artists, habits of thinking, classroom organization and learning resources. Offered in conjunction with the Faculty of Fine Arts Summer Institute of the Arts and Education, and the General Certificate in Educational Studies.

**ED/VISA 3300 6.0 The Body in Contemporary Art.** In recent years, psychological, social and political issues surrounding the body and how the body is represented have been of major importance to contemporary artists working in all media. This course will give teachers the opportunity to develop their own studio practice focusing on this theme using a diversity of media. Secondly, the theme of the body will be examined through the viewing of works by historical and contemporary artists and the discussion of selected readings. Offered in conjunction with the Faculty of Fine Arts Summer Institute of the Arts and Education, and the General Certificate in Educational Studies.

## Course Substitutions

Approved course substitutions are outlined in the following table. Course substitutions should be discussed with Faculty of Education advisers prior to registration.

COURSE	SUBSTITUTION
CMYR 2400 3.0 (Communications)	FINA 2400 3.0 (Arts and Ideas) (Substitution for Fine Arts program only)
CMYR 2500 3.0 (Human Development) (for P/J/I candidates)	DEVO 2500 3.0 (Human Development through Fine Arts) (Substitution for Fine Arts program only)
	INLE 2200 3.0 (Inquiries into Learning) (Should be taken in ED I)
	EDUC 3310 3.0 (Adolescent and the Teacher) (for J/I/S candidates)
EDUC 3400 3.0 (Models of Education)	INSL 2300 3.0 (Inquiries into Schooling) (Should be taken in ED II)

EDUC 3400 3.0 (Models of Education) and FNDS 3330 3.0 (Foundations of Education)	URED 3300 6.0 (Models of Urban Education) FINA 3330 6.0 (Social Foundations of Fine Arts Education) (Substitution for Fine Arts program only)
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## Engineering – Pure and Applied Science

Commencing in 2001-2002, the Faculty of Pure and Applied Science will offer an Engineering program leading to an Honours Bachelor of Applied Science [BASc Honours]. After a common first year, the program will branch into four streams: Computer Engineering, Engineering Physics, Geomatics Engineering and Space Engineering. For program details, see Science section V.

## Courses in Engineering

**SC/ENG 1000 6.0 Engineering Design I.** An introduction to design using case studies to illustrate the use of resources to meet stated objectives within constraints imposed by economic, health, safety, environmental, social and other factors. Emphasis is placed on written and oral presentation and critical analysis. Three lecture hours per week. Two terms. Six credits.

*Prerequisites: An overall average of 80 per cent over six OAC (or equivalent) courses, including English, Algebra and Geometry, Calculus, Chemistry and Physics, with a minimum of 70 per cent in each of the required subjects. A minimum TOEFL score of 600 is required for students who have not completed OAC English or equivalent.*

## English – Arts

### Department Office:

208 Stong College, 416-736-5166

### Web Address:

[www.arts.yorku.ca/english](http://www.arts.yorku.ca/english)

### Chair of the Department:

K. Michasiw

### Professors:

F. Birbalsingh, J. Carley, D.Cohen, C. Innes, R. Kuin, J. Lennox, H. Zeifman

### Associate Professors:

I. Balfour, H. Campbell, M. Cummings, P. Doob, L. Early, M.S. Elliott, B. Flattery, D. Freake, B. Godard, T. Goldie, R. Grogan, P. Head, L. Higgins, E. Hopkins, A.C. Koretsky, M-C. Leps, J. Lewis, S. McCaffery, K. Michasiw, A. Mukherjee, A. Pilgrim, E. Sabiston, J. Willoughby

### Associate Professors Emeriti:

D.R. Ewen, M. Rehner, H. Rinehart, H. Ross, D. Summerhayes

#### Assistant Professors:

J. Creet, K. Gibson, M. Olaogun, K. Valihora, J. Warren, D. Williams

#### Special Assistant Professors:

John Bell, Phyllis Rozendal

The English Department offers a variety of courses in the literature of the English language. There are courses in historical periods from medieval to modern, in the literature of several nations (Canadian and Post-Colonial as well as English and American), and in the various literary genres such as poetry, fiction, drama, non-fictional prose and criticism. In addition, during their final 36 credits, Honours English majors may propose their own thesis (AS/EN 4160 6.0).

*Note: For specific requirements of programs offered by this department, consult the Faculty of Arts "Programs of Study" section.*

### Courses in English

All courses meet for three hours of lectures or seminars each week throughout the year.

*Note: The following list of courses is not intended to be complete or final. Courses may be deleted from or added to it. See the department's annual supplementary calendar for a complete list of courses to be offered, as well as for reading lists and detailed course descriptions. These supplementary calendars are available from the Undergraduate Office, 208E Stong College.*

The following regulations apply only to incoming students as of September 1993, transfer students and new majors. Students who began before September 1993 should consult previous calendars for a description of requirements.

**Eligibility Requirements:** Students may enrol in English courses at various levels according to their year of study based on the number of credits they have completed. Year of study equivalent are found in the Faculty of Arts "Programs of Study" section of this Calendar.

*Note: For a list of Atkinson courses which are degree credit exclusions, students should consult the degree credit exclusion/equivalent tables in the Lecture Schedule or the departmental/divisional supplemental calendars.*

#### I. 1000-Level Courses

*Note: Open to all students who have passed fewer than 54 credits. Students who have passed 54 or more credits may enrol in 1000-level courses only if they have submitted an authorization form signed by the Director of Undergraduate Studies in English to the Undergraduate Office.*

**AS/EN 1100 6.0 Major Authors in English Literature.** An historical introduction to English literature, concentrating on major authors. The objective is not merely to impart information, but to give practice in useful ways of reading texts, thinking about them and writing about them.

*Note: This course is taught online.*

**AS/EN 1200 6.0 An Introduction to Literary Genres.** An introduction to English literature through the concept of genre, that is, the grouping of literary works according to their form. Four principal genres will be discussed: poetry, drama, fiction and non-fictional prose.

**AS/EN 1300 6.0 Literature and Theory: An Introduction.** This course introduces students to literary studies in English through several systems of interpreting literature. By examining various possible relations among the text, the reader, the author and the world, the student will become familiar with differing strategies of interpretation.

**AS/EN 1400 6.0 Introduction to English Literary History.** This course is an introduction to the materials and methods of historically oriented approaches to literature in English. It interrogates the various ways history and literature interrelate with emphasis on such concepts as period, tradition, development, canon and criticism.

#### II. 2000-Level Courses

*Note: Open to all students who have passed fewer than 84 credits. A limited number of places in the following 2000-level courses are open to students in their first year of university study (0 to 23 credits successfully completed). Students who have passed 84 or more credits may enrol in 2000-level courses only if they have submitted an authorization form signed by the Director of Undergraduate Studies in English to the Undergraduate Office.*

**AS/EN 2060 6.0 The Grammatical Structure of English.** An investigation of the grammatical structure of modern English, including phonology, morphology, syntax and semantics, within a linguistic framework.

*Cross-listed to: AS/LING 2060 6.0.*

**AS/EN 2070 6.0 Approaches to Grammar.** This course focuses on traditional, prescriptive and functional grammar. Traditional grammar developed in classical times and was later adapted to English. Prescriptive grammar describes accepted English usage. Functional grammar refers language structures to the meanings which they have in their human context.

**AS/EN 2100 6.0 History and Principles of Literary Criticism.** A study of major contributions to critical theory both past and present.

**AS/EN 2110 6.0 Introduction to Poetry.** Through the close study of poems and relevant critical material, the course aims to develop in the student the ability to read poetry with discernment and pleasure.

**AS/EN 2120 6.0 Drama.** An introduction to the study of drama, presented from a theatrical as well as a literary point of view, with the emphasis on the changing nature of dramatic convention and the relation of plays to their historical background.

**AS/EN 2130 6.0 Introduction to Poetics.** An introduction to the key issues in theoretical poetics including the social function of the poet, the nature of poetic language and the function of the image, together with surveys of avant-garde, feminist, ethno- and bio-poetics.

**AS/EN 2160 3.0/2160 6.0 Special Topics.** The department will offer courses or seminars on particular topics not ordinarily available. Details will be provided in the department's supplemental calendar.

**AS/EN 2210 3.0 Horror and Terror: Variations on Gothic.** The course addresses Gothic as a popular genre eliciting and managing fear, whether accompanied by anticipation and dread (terror) or confrontation and disgust (horror). Attention is paid to Gothic's 18th-century origins, but the focus is on more recent texts.

**AS/EN 2220 3.0 Coming of Age in Fiction: Novels of Maturation and Initiation.** This course examines the sub-genre of prose fiction known as the Bildungsroman or novel of maturation and the variety of forms and approaches evident in examples from the 19th and 20th centuries.

**AS/EN 2230 3.0 Comedy.** The nature, powers and limits of comedy are explored through reading a selection of comedies from Elizabethan to modern times.

*Degree credit exclusion: AS/EN 2160A 3.0.*

**AS/EN 2240 3.0 Apocalyptic Science Fiction.** This course surveys apocalyptic themes from the Bible to the present day. It focuses primarily on images of the end of the world in 19th- and 20th-century science fiction, and places the works studied in their cultural and historical contexts.

**AS/EN 2250 3.0 "'What is Real?' Asked the Rabbit": 20th Century Children's Literature.** This course is a historical study of children's literature written in the 20th century. It explores possible ways of reading that literature, taking into account such issues as its cultural context and its audience.

**AS/EN 2251 3.0 "Come, Take this Book Dear Child": Children's Literature: 1590-1900.** This course is an historical study of children's literature written between 1590 and 1900. It explores possible ways of reading that literature, taking into account such issues as its cultural context and its audience.

**AS/EN 2330 6.0 Literature of the United States Since 1865.** A study of representative works by major American writers from the 19th century to the present.

**AS/EN 2370 6.0 Post-Colonial Literature: Caribbean.** A study of poetry, drama and fiction by writers of English expression from various Commonwealth countries, with the main emphasis on critical examination of these works as literature, but with some attention to their historical and cultural contexts.

**AS/EN 2371 6.0 Post-Colonial Literature: African Literature.** This course introduces students to some important literary works from the continent of Africa. Texts will be studied in the context of histories of decolonialization of African nation states and how African writers respond to this history.

**AS/EN 2372 6.0 Post-Colonial Literature: South Asian.** The course introduces students to the literature and theory currently categorized as Post-Colonial by means of a focus on texts written in English by authors originating in the geographical region known as South Asia (India, Pakistan, Sri Lanka).

**AS/EN 2450 6.0 Canadian Literature.** A critical and historical study of the literature of Canada. When relevant, material for the course will be drawn from other literatures.

**AS/EN 2470 6.0 Introduction to Prose Narrative.** An introduction to the formal techniques and generic patterns that have governed the production of prose narrative in English from the 16th century to the present. Primary emphasis is on fiction but non-fictional narrative is addressed as well.

*Degree credit exclusion: AS/EN 2470 6.0 taken previously.*

**AS/EN 2480 6.0 Satire.** A broad and incisive examination of works in poetry, prose and drama as examples of one of the four major kinds of literature – satire.

**AS/EN 2510 6.0 British and American Poetry and Fiction: 1900 to 1940.** Representative and influential works by British and American authors, including Eliot, Lawrence, Joyce, Hemingway and Faulkner.

**AS/EN 2550 6.0 The European and British Novel: 1880-1930.** A study of tradition and innovation in the theory and practice of the novel, with special attention to the influence of continental fiction.

*Degree credit exclusion: AS/EN 3150 6.0.*

**AS/EN 2600 6.0 Medieval English.** An introduction to a representative selection of medieval English literature from *Beowulf* to Malory's *Morte d'Arthur*; designed for students, whatever their specialty, who would like to acquire some familiarity with Old and Middle English literature.

*Degree credit exclusion: AS/EN 2460 6.0.*

**AS/EN 2660 6.0 An Introduction to Victorian Culture and Literature.** This course serves as an introduction to 19th-century English culture and literature through its representations in a broad range of writings in six genres.

*Degree credit exclusion: AS/EN 2160B 6.0.*

**AS/EN 2690 6.0 An Introduction to Contemporary Literature.** A study of British and North American literature published since 1950.

*Degree credit exclusion: AS/EN 3360 6.0.*

**AS/EN 2770 6.0 Modern Drama.** A survey of European, British and North American dramatists from Ibsen, Chekhov and Shaw to Brecht and Osborne.

*Degree credit exclusion: AS/EN 3200 6.0.*

**AS/EN 2850 6.0 Introduction to Gender Studies.** An examination of how gender mediates the creation, reception and interpretation of literary/cultural texts. It provides students with critical tools for understanding gender in contemporary theory and reading and writing about gender in literary texts.

**AS/EN 2860 6.0 Women in Literature: A Comparative Analysis.** The course examines the changing social and familial roles of women as they have been reflected and popularized in fiction from the 18th century to the present. The approach is comparative and historical, drawing on documents to complement the fiction.

### III. 3000-Level Courses

*Note 1: open to all students who have successfully completed at least 54 credits. Students who have passed at least 24 but fewer than 54 credits may enrol in 3000-level courses only after they have submitted an authorization form signed by the course director to the Undergraduate Office.*

*Note 2: for 3000-level courses that satisfy the pre-1832 requirement please consult the Area lists in the Faculty of Arts "Programs of Study" section.*

**AS/EN 3010 6.0 Style and Stylistics.** An introduction to the description and history of the written language, designed to help students become more articulate critics of literature. Problems will include the question of style, structure and specific English stylists since 1600.

**AS/EN 3100 6.0 Literary Interpretation and Analysis.** An introduction to the linguistic and structural analysis of literary texts.

**AS/EN 3110 6.0 Old English Language and Literature.** An introduction to the language and literature of the Anglo-Saxon period. The greater part of the course is devoted to selections of prose and poetry, read in the original Old English, with some reference to their historical and cultural context.

**AS/EN 3130 6.0 Poetry of the Early Modern Period: 1500-1660.** This course examines the English lyric from Sidney to Marvell, concentrating on the Elizabethan sonnet in Fall Term and on the school of Donne in Winter Term. Attention will also be paid to social and aesthetic contexts.

**AS/EN 3150 6.0 The Writer/Critic.** This course studies work of creative writers who were or are also important critics.

**AS/EN 3160 3.0/3160 6.0 Special Topics.** The department will offer courses or seminars on particular topics not ordinarily available. Details will be provided in the department's supplemental calendar.

**AS/EN 3165 6.0 From Fin De Siècle to Modernism.** British Literature of the 1890s and the first decade of the 20th century, focusing on the development of early Modernism.

*Degree credit exclusion: AS/EN 4150D 6.0.*

**AS/EN 3170 6.0 Modern British Poetry.** A critical and historical study of works by British poets of the Modernist period.

**AS/EN 3190 6.0 Shakespeare.** An introduction to the study of Shakespeare's plays.

**AS/EN 3210 6.0 Elizabethan and Jacobean Drama.** A survey to familiarize students with the work of Shakespeare and his Elizabethan and Jacobean contemporaries with emphasis on the dramatic language of the periods.

**AS/EN 3230 6.0 The English Romantics.** A study of the period 1780-1830 in English poetry and prose, that is, of the Romantics and some of their contemporaries.

**AS/EN 3240 6.0 Poetry Workshop.** A course intended for students who show talent in the composition of poems and who wish to develop their talent by studying the practice of recognized poets and by submitting their own work to criticism and discussion.

*Degree credit exclusion: AS/HUMA 3645 6.0.*

*Note: Admission to this course is based upon approval of a portfolio of 15 to 20 pages of poetry submitted by the student to the coordinator of the Creative Writing program.*

**AS/EN 3260 3.0/3260 6.0 Chaucer.** A critical reading of Chaucer's works, with special reference to *The Canterbury Tales*.

**AS/EN 3261 6.0 Drama and Vision in the Middle Ages.** In this course students consider the meanings of medieval literary images through readings of Middle English poetry (Chaucer and the *Pearl Manuscript*), drama and visionary literature, as well as studies of the contemporary pictorial art.

**AS/EN 3270 6.0 17th-Century Perspectives.** A critical and historical study of 17th-century literature from the death of Elizabeth I to the death of Milton.

**AS/EN 3280 6.0 Victorian Poetry.** An introductory study of Victorian poetry with a roughly equal emphasis on Tennyson and other major poets and on various late 19th-century literary movements.

**AS/EN 3300 6.0 Victorian Fiction and its Reading Public.** A study of some significant novels from the period 1840-1900 (Eliot, Dickens, Thackeray and others), together with some useful fictions by less demanding writers of the time.

**AS/EN 3310 6.0 Literature of the United States: 1800-1865.** A reading of selected works by Cooper, Poe, Emerson, Thoreau, Hawthorne, Melville and others.

**AS/EN 3320 6.0 Poetry of the United States.** A critical examination of the major achievements of American poets writing in the 20th century against the background of earlier poets who may be said to have established the foundations of an American poetic tradition.

**AS/EN 3330 6.0 Modern Canadian Drama.** This course focuses on the wide range of English-language drama written and performed in Canada since 1967.

*Degree credit exclusion: AS/EN 3160A 6.0.*

**AS/EN 3340 6.0 Modern Canadian Fiction.** A study of selected Canadian novelists, anglophone and francophone. Contemporary and comparative themes and techniques are considered, using translations for the francophone works.

**AS/EN 3350 6.0 Modern Canadian Poetry.** An intensive study of the modern movement in Canadian poetry.

**AS/EN 3400 3.0 Ballads and Folksongs.** A study of the ballads and folksongs of the English-speaking world.

**AS/EN 3420 6.0 Psychoanalysis and Approaches to Literature.** An introduction to the fundamental concepts of psychoanalysis and their application to the study of literature. The course's primary theorist is Freud but the contributions of such figures as Jung, Klein and Lacan are also considered.

**AS/EN 3430 3.0/3430 6.0 Studies in Women Writers.**

*Note: Details in the English Department's supplemental calendar.*

**AS/EN 3440 6.0 Post-Colonial Writing in Canada.** An examination of the meaning of post-coloniality in the Canadian context by focusing on the work of writers of Native, Caribbean and South Asian backgrounds. It would be fruitful to study them together as their work provides a foreground to the experience of colonialism.

**AS/EN 3540 3.0/3540 6.0 18th-Century Genres.** An examination of the developments and transformations in one or more of the four principal literary genres — poetry, drama, prose fiction, non-fictional prose — in the period from 1660-1800 and of the relations of these to concurrent social change.

**AS/EN 3721 6.0 Mapping the Italian Experience in Canada.** The study of the Italian experience in Canada as expressed in representative works from various genres: narrative, poetry, theatre and film. The significance of these works is examined in the social and political context.

*Prerequisite: None.*

*Cross-listed to: AS/IT 3721 6.0.*

## IV. 4000-Level Courses

*Note: open to all Honours students who have passed at least 84 credits. Honours students who have passed at least 54 but fewer than 84 credits may enrol in 4000-level courses only if they have submitted an authorization form signed by the course director to the Undergraduate Office.*

**AS/EN 4100 3.0/4100 6.0 Studies in Literary Theory.** An advanced seminar allowing students with an informed interest in the history and principles of literary theory to focus on specific issues. Different theoretical approaches and areas of concern are explored from year to year.

**AS/EN 4110 6.0 History and Description of the English Language.** The development of the English language to the present time and a description of Modern English.

*Integrated with: GS/EN 6810 6.0.*

**AS/EN 4130 6.0 Milton.** A study of the major poetry and selected prose of John Milton: "Lycidas," "Comus," *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*.

**AS/EN 4140 6.0 Studies in Modern Poetry.** English and American poetry of the 20th century, with attention being paid to the work of contemporary poets, as well as to that of established writers.

**AS/EN 4150 3.0/4150 6.0 Special Topics.** To be announced in the English Department's supplemental calendar.

**AS/EN 4160 6.0 Independent Research.** This course provides an opportunity for sustained research under the direction of a member of the department on topics not covered in the English curriculum. The research must take the form of a thesis. Open only to honours English students who have passed at least 84 credits, with the permission of the director of Undergraduate Studies in English.

*Note: Consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

**AS/EN 4180 3.0/4180 6.0 Studies in Renaissance Literature.** To be announced in the English Department's supplemental calendar.

**AS/EN 4185 6.0 Advanced Shakespeare.** This course examines Shakespearean texts not normally studied in undergraduate courses on Shakespeare. It also gives attention to some of the more significant theoretical trends in Shakespearean and early modern literary studies.

**AS/EN 4190 3.0/4190 6.0 Studies in 18th-Century Literature.** To be announced in the English Department's supplemental calendar.

**AS/EN 4200 6.0 Studies in 19th-Century Literature.** To be announced in the English Department's supplemental calendar.

**AS/EN 4210 3.0/4210 6.0 Studies in the Literature of the United States.** To be announced in the English Department's supplemental calendar.

**AS/EN 4220 3.0/4220 6.0 Studies in Old English Literature.** A study of selected texts in the literature of Anglo-Saxon England.

**AS/EN 4230 3.0/4230 6.0 Studies in Post-Colonial Literature.** To be announced in the English Department's supplemental calendar.

**AS/EN 4250 6.0 Studies in the English Romantics.** To be announced in the English Department's supplemental calendar.

**AS/EN 4260 3.0/4260 6.0 Studies in Prose Fiction.** To be announced in the English Department's supplemental calendar.

**AS/EN 4265 6.0 Late Victorian Fiction and the 'New Woman'.** This course focuses on literature related to the 'New Woman' phenomenon on the late-19th century, examining connections between her representations in fiction and those constructed in the periodical press and other literary forms of the time.

*Degree credit exclusion: AS/EN 3160N 3.0 (Fall/Winter 1997-1998).*

**AS/EN 4270 6.0 Studies in Canadian Literature.** To be announced in the English Department's supplemental calendar.

**AS/EN 4280 6.0 Studies in Middle English Literature.** To be announced in the English Department's supplemental calendar.

**AS/EN 4290 6.0 Studies in the History of Women's Writing.** To be announced in the English Department's supplemental calendar.

**AS/EN 4320 3.0/4320 6.0 Studies in Contemporary Drama.** To be announced in the English Department's supplemental calendar.

## Environmental Science – Pure and Applied Science

### Program Office:

N417 Ross, 416-736- 5107

### Coordinator of the Program:

A.R. Hill

### Professors:

M.B. Fenton, A.R. Hill, M.C. Kellman, L.E. Licht, J.C. McConnell, D.J. McQueen, L.D.M. Packer, J.S. Shore, P.A. Taylor

### Associate Professors:

D.R. Bazely, R.L. Bello, Q. Cheng, M.A. Jenkins, G.P. Klaassen, A. Robert, B.J. Stutchbury, N. Yan, K.L. Young

### Assistant Professors:

K. McLeod

Environmental science encompasses the study of the major natural interacting systems of climate, water, biota and landforms and the effects of human activities on these systems. The program provides students with a broad interdisciplinary education which is organized around the field of environmental science rather than being focused



on a single academic discipline. It equips students with scientific knowledge and understanding of several environmental systems so that they can effectively analyze and deal with complex environmental problems.

Students are required to focus their studies on one of two streams (Physical Sciences and Life Sciences) and complete a set of core courses which provide a minimum breadth in both the physical and life sciences.

For specific requirements of the BSc Specialized Honours program in Environmental Science, see Science section V.

## Departmental Courses in Environmental Science

The following list includes required and elective courses in the BSc Specialized Honours program in Environmental Science.

### Geography

SC/GEOG 2400 6.0 The Hydrosphere.  
SC/GEOG 2500 3.0 Introduction to Vegetation and Soils.  
SC/GEOG 2700 3.0 Introduction to Geomorphology.  
SC/GEOG 3200 3.0 Terrestrial Ecosystems.  
SC/GEOG 3400 3.0 Glacial Geomorphology.  
SC/GEOG 3500 3.0 Plant Geography. (Cross-listed to: SC/BIOG 3500 3.0)  
SC/GEOG 3600 3.0 Process Geomorphology.  
SC/GEOG 4180 4.0 Laboratory Analysis of Ecological Materials.  
SC/GEOG 4200 3.0 Water Quality and Stream Ecosystems.  
SC/GEOG 4205 3.0 Climatology of High Latitudes.  
SC/GEOG 4210 3.0 Hydrometeorology.  
SC/GEOG 4280 3.0 Tropical Environments.  
SC/GEOG 4310 3.0 Dynamics of Snow and Ice.  
SC/GEOG 4400 3.0 Physical Hydrology and Water Resources.  
SC/GEOG 4500 3.0 Northern Forest Environments.  
SC/GEOG 4600 3.0 Fluvial Geomorphology.

### Biology

SC/BIOG 2010 4.0 Plants.  
SC/BIOG 2030 4.0 Animals.  
SC/BIOG 2031 3.0 Animals.  
SC/BIOG 2050 4.0 Ecology.  
SC/BIOG 2060 3.0 Biometrics  
SC/BIOG 3001 3.0 Field Course. (ecology sections)  
SC/BIOG 3001 2.0 Field Course. (ecology sections)  
SC/BIOG 3002 3.0 Field Course. (ecology sections)  
SC/BIOG 3002 2.0 Field Course. (ecology sections)  
SC/BIOG 3170 3.0 Concepts in Animal Ecology.  
SC/BIOG 4000 8.0 Honours Thesis.  
SC/BIOG 4020 3.0 Mycology.  
SC/BIOG 4070 3.0 Behavioural Ecology.  
SC/BIOG 4080 3.0 Methods in Aquatic Ecology.  
SC/BIOG 4090 4.0 Plant Ecology.  
SC/BIOG 4095 3.0 Applied Plant Ecology.  
SC/BIOG 4100 3.0 Natural History.  
SC/BIOG 4120 3.0 Phycology.  
SC/BIOG 4130 3.0 Plant Evolution.  
SC/BIOG 4230 4.0 General Entomology.

SC/BIOG 4240 4.0 Mammalian Systematics and Ecology (Mammalogy).  
SC/BIOG 4245 3.0 Conservation Biology. (Cross-listed to: ES/ENVS 4110 3.0)  
SC/BIOG 4250 3.0 Ornithology.  
SC/BIOG 4255 3.0 Biodiversity. (Cross-listed to: ES/ENVS 4111 3.0)  
SC/BIOG 4260 3.0 Systematic Biology in Theory and Practice.  
SC/BIOG 4265 3.0 Pollutants, Invaders and Global Change.  
SC/BIOG 4340 3.0 Fish Biology.  
SC/BIOG 4400 3.0 Behavioural Genetics.  
SC/BIOG 4420 3.0 Herpetology.

### Earth and Atmospheric Science

SC/EATS 2010 3.0 Introductory Meteorology.  
SC/EATS 2470 3.0 Introduction to the Mechanics of Fluids and Solids.  
SC/EATS 3030 3.0 Atmospheric Radiation and Thermodynamics. (Cross-listed to: SC/PHYS 3080 3.0)  
SC/EATS 3040 3.0 Atmospheric Dynamics I.  
SC/EATS 3130 3.0 Introductory Atmospheric Chemistry. (Cross-listed to: SC/CHEM 3060 3.0)  
SC/EATS 4050 3.0 Synoptic Meteorology I.  
SC/EATS 4051 3.0 Synoptic Meteorology II.  
SC/EATS 4120 3.0 Cloud Physics and Radar Meteorology.  
SC/EATS 4130 3.0 Atmospheric Dynamics II.  
SC/EATS 4140 3.0 Numerical Weather Prediction.  
SC/EATS 4150 3.0 Turbulence and Diffusion in the Atmospheric Boundary Layer.  
SC/EATS 4160 3.0 Climate and Climate Change.  
SC/EATS 4170 4.0 Transport and Chemistry of Atmospheric Trace Gases. (Cross-listed to: SC/CHEM 4061 4.0)  
SC/EATS 4220 3.0 Remote Sensing of the Earth's Surface.  
SC/EATS 4230 3.0 Remote Sensing of the Atmosphere.  
SC/EATS 4240 3.0 Storms and Weather Systems.

## Environmental Studies

### Faculty Office:

355 Lumbers, 416-736-5252

### Acting Dean (July 1, 2001 – June 30, 2002):

D. Morley

### Associate Deans:

M. Campbell and R. Macdonald

### Undergraduate Program Director:

R. Keil

### University Professor:

W.C. Found

### Professors:

D.V.J. Bell, G.P. Daly, M.B. Fenton, B. Geer-  
Wooten, H.P.M. Homenuck, L. Salter,  
E.S. Spence, P. Victor, G.R. Wekerle,  
P.F. Wilkinson

### Professors Emeriti:

G. Carrothers, J. B. Ellis, R. Lang,  
C.D. Morely, A.L. Murray, R.D. Schwass

### Associate Professors:

A. Armour, D. Barndt, M. Campbell,  
H.E. Daugherty, G. Desfor, R. Keil, B. Kettel,  
R.G. Macdonald, L. Molot, G.P. Penz,

P.E. Perkins, R. Peterson, B. Rahder,  
R. Rogers, B.M. Rutherford, L.A. Sandberg,  
C.A.H. Sandilands

### Associate Professor Emeritus:

J.G. Craig

### Assistant Professors:

H. Ali, C. Canzonieri, P. Cole, L. Fawcett,  
L. Gilbert, F. Handy, I. Kapoor, G. Sheng,  
J.W. Sheridan, J. Steigerwald,  
P. Zandbergen

The Bachelor in Environmental Studies (BES) program in York's Faculty of Environmental Studies is dedicated to the investigation of natural, social, built and organizational environments, and the complex relationships among them. A broad field of inquiry, it allows you to explore the environment from a humanities, social sciences and/or environmental science perspective. The key to the BES program is its self-directed nature: core required and elective courses allow you to pursue a wide range of environmental issues as you focus on individual goals and interests. While examining and engaging with current environmental issues in course work and through practical experience, you will become a member of a community of learners, researchers and teachers with a common commitment to changing the world. In order to prepare you for any career you choose, the BES program places emphasis on specific skills including critical and analytical thinking, communication, collaboration, academic research and presentation, advocacy, policy analysis, problem solving and community-building. Graduates from this program receive a Bachelor of Environmental Studies (BES) Specialized Honours degree.

*Note: A BES program supplemental calendar is available each spring in the FES Undergraduate Office of Student and Academic Services (Room 352, Lumbers Building) or on the York Web site at: [www.yorku.ca/fes](http://www.yorku.ca/fes).*

## Courses in Environmental Studies

For complete requirements of the BES Specialized Honours program, please consult the Faculty of Environmental Studies section of this Calendar.

A proportion of the places in most BES courses is available to students in other Faculties. Please consult the BES supplemental calendar for details.

The following are the descriptions of the courses for the BES Specialized Honours program as approved by the Senate of York University.

**ES/ENVS 1000 6.0 Approaches to Environmental Studies.** The special nature of environmental studies is explored through integrative perspectives emphasizing socio-environmental problems and solutions; actors, actions and ethics; contextualization of problems and phenomena; holistic perspectives; critical and creative thinking and communication.

**ES/ENVS 1200 6.0 BES Workshop.** Special topics in environmental studies will be explored through small group research. Each year a new research focus will be identified by the students and faculty involved in the workshop. Once a research focus has been selected, a range of perspectives and substantive areas will be identified and students will engage in research in these areas. The course culminates with a mini-conference where student groups present their research and integrate the group presentations.

*Prerequisite: First-year ENST specialty.*

**ES/ENVS 1500 6.0 Introduction to Science for Environmental Studies.** The course provides an introduction to the elements of physics, chemistry, biology and ecology that are necessary for the study of environmental problems. It also acquaints students with techniques (including computer techniques) for the description, organization and display of quantitative data.

*Note: This course is not intended for students who have OAC's in both biology and chemistry.*

**ES/ENVS 1800 6.0 Environmental Writing/ Writing the Environment.** This course introduces students to a range of modes of writing in environmental studies. In the process of reading, discussing and practising different kinds of environmental writing, students will develop a variety of writing skills in addition to an appreciation of writing as an important form of environmental action. The course also considers writing in relation to oral traditions and newer technologies.

*Prerequisite: First-year specialty or permission of the instructor.*

*Note: This course is not intended for ESL students.*

*Note: This course is intended for students in the first year of study. It is highly recommended for all first-year BES students and is an option for fulfilling the BES general education humanities requirement. Students in second or third year transferring from other faculties to the BES program and other students with advanced standing may take the course by special permission.*

**ES/ENVS 2000 3.0 Paradigms in Environmental Studies.** The course maps the theoretical perspectives, theories and approaches encountered in environmental studies. The basic paradigms of the natural and the social sciences are considered, along with integrating paradigms. The relationships of concepts to theories and to methods of inquiry are explored.

*Prerequisite: Second-year standing.*

**ES/ENVS 2010 6.0 Methods in Environmental Studies I.** Implications for paradigms for methods of inquiry. Theory and method of quantitative description, probability and statistics. Induction, deduction, the relation of theories to observations and the role of chance in human and environmental processes are introduced. Exercises requiring familiarity with microcomputer spreadsheet

and database packages are assigned. Remedial computer literacy modules are made available for those needing them.

*Prerequisite: Second-year standing.*

*Degree credit exclusion: Students can take one full course (6.0) or two half-courses (3.0) from the following list: SC/ACMS 2020 6.0, SC/BIOL 3080 3.0, SC/BIOL 3090 3.0, AS/ECON 2500 3.0, AS/ECON 3560 3.0, AS/SC/GEOG 2420 3.0, AS/SC/MATH 1131 3.0, AS/SC/MATH 1132 3.0, AS/SC/MATH 2560 3.0, AS/SC/MATH 2570 3.0, AS/SC/PHED 2050 3.0, AS/SC/PSYC 2021 3.0 or AS/SOCI 3030 6.0*

**ES/ENVS 2100 3.0 Foundations of Nature, Technology and Society.** The goal of this course is to introduce students to the study of some central issues at the boundaries between nature and technology studies and contemporary social controversies surrounding the environment. The lectures focus on case studies, such as the Canadian fishery, biotechnology, agribusiness and animal tools, in order to illustrate and explore the complex relationships between natural environments, technologies and humans.

**ES/ENVS 2200 3.0 Foundations of Human Settlements and Population.** The course first develops understanding of the basic processes of demography and the dynamics of human populations. The relationship of populations to their environments and to cultural development is explored. The formation of settlements and their role in human affairs is explored, along with their local and global environmental impacts.

**ES/ENVS 2400 3.0 Foundations of Environmental Policy and Action.** The course explores the nature and process of, and constraints on, policy making in the public and private sector, with special emphasis on environmental policies. The effect on the environment of policies in different sectors is explored, and the policies of environmental interest groups and social movements are reviewed. Case studies are used to expose students to policy formulation, the linkage of policy to action and the effect on policies of interest groups and social movements.

**ES/ENVS 2500 6.0 Applied Environmental Sciences.** The course introduces students to the concepts and practices in the main areas of environmental sciences that bear on environmental issues and problems. Topics include water quality studies, toxicology, air pollution and air quality, forest ecology and management, energy impacts and ecological restoration.

*Prerequisite: ES/ENVS 1500 6.0 or equivalent, or permission of the instructor.*

**ES/ENVS 3000 3.0 Environmental Ethics.** The course identifies, compares and evaluates ethical principles and theories that apply to environmental and related social issues and their relationship to underlying value components. Implications for public action and for the practice of individuals and organizations are developed.

*Prerequisite: Third-year ENST specialty or permission of the instructor.*

**ES/ENVS 3011 3.0 Methods in Environmental Studies II.** This course examines the use of quantitative and qualitative approaches in the context of research design. The course, which is a prerequisite for ES/ENVS 4000 6.0 Senior Honours Work, has as its final assignment the completion of the research design and nomination of a faculty supervisor for the Senior Honours Work to be undertaken beginning in the following Fall/Winter Session.

*Prerequisite: Third-year ENST standing with Environmental Studies as Major 1, and ES/ENVS 2010 6.0 Methods in Environmental Studies I.*

*Note: Third-year standing means the student has completed 54 or more credits that are creditable to the BES program; credits counting towards a concurrent BEd degree cannot be included in this total. Because this course is a prerequisite for ENVS 4000 6.0 Senior Honours Work and because ENVS 4000 6.0 Senior Honours Work is intended for students in the final year of their degree program, students taking more than four academic years to complete their degree program (including BES students) will be permitted to enrol in ENVS 3011 3.0 Methods in Environmental Studies only in the second last year of their degree program.*

**ES/ENVS 3110 3.0 Science and the Environment.** The course explores links between the state of environmental knowledge, environmental science, and its application to environmental issues and policy. It starts with an historical perspective of how public perceptions and attitudes have changed with respect to scientific findings about the environment. Case studies critically examine controversies and conflicts in how scientific knowledge has or has not changed and affected policy and the state of the environment.

*Prerequisite: ES/ENVS 2500 6.0 or permission of the instructor.*

**ES/ENVS 3120 3.0 Environmental History.** The course examines the culture-environment relationship in historical perspective. The focus is on ways in which social change is triggered by environmental change and vice versa. Case studies illustrate general patterns of change, such as those associated with the introduction of alien species, new modes of agricultural production.

*Prerequisite: ES/ENVS 2100 3.0 or permission of the instructor.*

**ES/ENVS 3130 3.0 Energy and the Environment.** The course focuses on relationships between socio-economic development, energy use and the environment in Canada. Energy sources, energy end use, energy technology and energy institutions as well as the social and ecological impacts of energy use are examined. Energy systems supportive of sustainable development are explored.

*Prerequisite: Third-year ENST specialty or permission of the instructor.*

**ES/ENVS 3140 3.0 Environmental Education.** The course explores concepts and practices in environmental education in the widest sense,

comprising formal, informal and global education ideas. The course takes a critical and historical approach to environmental education with an emphasis on developing and practising alternative perspectives on how people learn about the natural environment.

*Prerequisite: ES/ENVS 2100 3.0 or permission of the instructor.*

**ES/ENVS 3151 3.0 Environmental Politics and Advocacy I.** This course introduces students to a range of approaches and issues in environmental politics and advocacy. Themes include: political dimensions of contemporary environmental problems; main currents in environmental political thought; and relations between governmental and non-governmental organizations in environmental advocacy.

*Prerequisite: Third-year ENST specialty or permission of the instructor.*

**ES/ENVS 3220 3.0 Urban Sustainability.** The course takes a conceptual approach to defining "sustainability" for urban areas, considering patterns of land use, human activities, natural systems and needed rehabilitation. Case studies explore ways of making urban areas more sustainable.

*Prerequisite: ES/ENVS 2200 3.0 or permission of the instructor.*

**ES/ENVS 3310 3.0 Environment and Development.** An historical perspective on development concepts and practices is the initial focus, considering economic, social, political and environmental ideas in development. Case studies then illustrate how different approaches have led to different results and lead to discussion of alternatives.

*Prerequisite: ES/ENVS 2300 3.0 or permission of the instructor.*

**ES/ENVS 3340 3.0 Global Environmental Politics.** The course reviews the emergence of environmental issues in international relations and the body of environmental law that has been produced. Case studies of issues such as global warming, the ozone layer and the destruction of tropical rainforests are used to analyze the social, economic and political pressures that raised them and the effectiveness of solutions. International forums on environment and development are studied.

*Prerequisite: ES/ENVS 2300 3.0 or permission of the instructor.*

**ES/ENVS 3410 3.0 Environmental Policy I.** The formulation of environmental policy is the focus: its underlying scope, concepts, legal bases, methodologies. Case studies illustrate the interaction of environmental policy with other policy areas: foreign and trade policy, economic and social policy. Critical review of how policy is created.

*Prerequisite: ES/ENVS 2400 3.0 or permission of the instructor.*

**ES/ENVS 3420 3.0 Environmental Law.** Introduction to basic legal concepts: sources of law, legal remedies, common law and administrative law. An examination of planning acts, environmental protection acts and

environmental assessment acts is followed by a review of litigation processes, hearing boards and their operations. The course will critically review environmental legal concepts and their social, economic and environmental effects.

*Prerequisite: ES/ENVS 2400 3.0 or permission of the instructor.*

**ES/ENVS 3430 3.0 Environmental Assessment.** The course explores and defines concepts of impact assessment, origins and rationale of the EIA process, current legislation and practices, including a discussion of EIA legislation and methodologies. Case studies provide a critical review of current EIA methodologies, including participation and consultation and the use of impact study information for environmental planning and decision making.

*Prerequisite: ES/ENVS 2400 3.0 or permission of the instructor.*

**ES/ENVS 3440 3.0 Resource Management.** Current theories of resource management, methods, information and decision making are reviewed critically. Ethical, cultural, social and economic perspectives on resource management are explored through case studies.

*Prerequisite: Third-year ENST specialty or permission of the instructor.*

**ES/ENVS 3510 3.0 Environmental Economics I.** The application of economic principles to environmental issues is introduced and critically reviewed. Linkages between economic factors, social processes and natural environments are explored. The use of economic principles in deriving solutions to issues of pollution control, resource depletion and environmental regulation is explored.

*Prerequisite: ES/ENVS 2400 3.0 or permission of the instructor.*

**ES/ENVS 3520 3.0 Geographical Information Systems in Environmental Studies.** This course provides students with an introduction to the application of Geographical Information Systems (GIS) to environmental problems. A broad conceptual overview of GIS approaches and their strengths and limitations is presented. Students gain hands-on experience in the use of raster-based GIS technology with particular reference to resource management and planning topics.

*Cross-listed course: also offered as AS/SC/ GEOG 3180 3.0.*

*Prerequisite or Corequisite: ES/ENVS 2010 6.0 and one 2000 level Theme Foundation course or the permission of the instructor.*

**ES/ENVS 3521 3.0 Environmental Remote Sensing.** This course represents an introduction to the methods in which remote sensing data are collected, processed and analysed. An emphasis is placed on environmental applications. The synergy between the technologies of remote sensing and geographic information systems (GIS) is also stressed.

*Cross-listed course: also offered as AS/GEOG 3440 3.0.*

*Prerequisite: ES/ENVS 2010 6.0 and one 2000- level Theme Foundation course, or written permission of the course director.*

**ES/ENVS 4000 6.0 Senior Honours Work.** All BES honours students participate in an advanced seminar on topics in environmental studies, which runs concurrently with their own production of a thesis, synthesis paper or major project report done in conjunction with a supervisor.

*Prerequisites: ES/ENVS 3011 3.0 Methods in Environmental Studies II and fourth-year ENST standing with Environmental Studies as Major 1. Course Team: Supervisors of individual students' Senior Honours Work as approved in ENVS 3011 3.0 Methods in Environmental Studies II in previous Winter Term.*

**ES/ENVS 4110 3.0 Conservation Biology.** This course explores the role of biological science in efforts to conserve natural resources, systems and the organisms therein. Two lecture hours, three laboratory hours. One term. Three credits.

*Cross-listed course: SC/BIOL 4245 3.0.*

*Prerequisites: SC/BIOL 2010 4.0; one of SC/BIOL 2030 5.0, SC/BIOL 2030 4.0, SC/BIOL 2031 4.0, SC/BIOL 2031 3.0; SC/BIOL 2040 5.0 or SC/BIOL 2040 4.0; SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0; or permission of the instructor.*

**ES/ENVS 4111 3.0 Biodiversity.** We do not know the number of species on Earth, even to the nearest order of magnitude. This course discusses the factors that influence the number of species in an area and the importance of biodiversity to humanity.

*Cross-listed course: SC/BIOL 4255 3.0.*

*Prerequisite: Completion of 60 credits towards a degree in Biology or Environmental Science or Environmental Studies or permission of the instructor.*

*Degree credit exclusion: SC/BIOL 4255 3.0.*

**ES/ENVS 4120 3.0 Natural History.** The course explores the beliefs, theories and practices of naturalists, through readings as well as visits to sites of natural history. It examines the ways in which current approaches to natural history are products of the historical development of the field and reflect assumptions regarding scientific knowledge formation and practice.

*Prerequisite: ES/ENVS 2100 3.0 or permission of the instructor.*

**ES/ENVS 4140 3.0 Environmental Thought.** The course is an introduction to diverse ways of seeing and understanding nature. An historical perspective on the development of environmental thought leads to an exploration of various perspectives and critiques of the standard scientific and technological approaches to understanding

nature, as offered by alternative schools of thought such as humanists, deep ecologists and ecofeminists.

*Prerequisite: Third- or fourth-year ENST specialty or permission of the instructor.*

**ES/ENVS 4151 3.0 Environmental Politics and Advocacy II.** The course focuses on current developments in politics and advocacy on environmental issues. Topics may include: recent trends in political theory; the impact of globalization on environmental advocacy; and the rise of "new" social and environmental movements.

*Prerequisite: ES/ENVS 3151 3.0 or permission of the instructor.*

**ES/ENVS 4161 3.0 New Social Movements.** This course examines new social movements that have arisen in response to the crisis of industrial culture, economic restructuring, shifting political formations and ecological disasters. The course focuses on current theories of social movements, contested issues and case studies of social movements in action and is intended to provide opportunities for students to gain first-hand experience with social movement organizations through participatory research projects.

*Integrated course: ES/ENVS 5073.*

*Prerequisite: Fourth-year standing or permission of the instructor.*

**ES/ENVS 4210 3.0 World Population Issues and Problems.** The course examines the causes and consequences of the current growth in world population. Case studies explore existing and alternative population policies such as family planning, enhancing the status of women and improving education. Possibilities for a global strategy are considered.

*Prerequisite: Fourth-year standing or permission of the instructor*

**ES/ENVS 4220 3.0 Urbanization in Developing Countries.** The special problems of urban areas in the third world are addressed, including industrialization and growth in the formal economy, migration and informal settlement, land use and urban food production, transportation, energy, and services. Case studies show linkages to national development policies and to social and environmental problems.

*Prerequisite: Fourth-year ENST specialty or permission of the instructor.*

**ES/ENVS 4311 3.0 Global Justice and the Environment.** The course provides a general introduction to socio-environmental ethics and, in particular, social justice, as applied to global development, the global environment, international relations. It will cover the human-rights approach, theoretical schools of thought and particular public controversies.

*Cross-listed course: also offered as AS/POLS 4311 3.0.*

*Integrated course: ES/ENVS 5068.*

*Prerequisite: ES/ENVS 3000 3.0 or permission of the instructor.*

**ES/ENVS 4320 3.0 Gender and Development.** The course presents an overview of gender and development analysis as a framework for considering the role of women in third world development. Consideration of theories and concepts leads to case studies illustrating issues and practices.

*Prerequisite: Fourth-year ENST specialty or permission of the instructor.*

**ES/ENVS 4410 3.0 Environmental Policy II.** The analysis and evaluation of environmental policy are presented through concepts, methods and processes. A critical exploration of the basis and results of current methods of policy evaluation, exploration of alternatives, ethics and equity of environmental policy is accomplished through case studies.

*Prerequisite: ES/ENVS 3410 3.0 or permission of the instructor. ES/ENVS 3510 3.0 or equivalent is recommended.*

**ES/ENVS 4420 3.0 Environmental Attitudes and Communication.** The bases for socially-held environmental attitudes are explored: perceptions, social and cultural differences. The influence of the media on communicating perceptions of environmental issues and affecting attitudes and behaviour with respect to the environment is critically reviewed through case studies.

*Prerequisite: Fourth-year standing or permission of the instructor.*

**ES/ENVS 4430 3.0 Impact Assessment Processes and Practice.** The current processes and practices of environmental and social impact assessment are critically reviewed through case studies. Emerging conceptual and methodological issues in the field are explored in the context of actual practice situations.

*Prerequisite: ES/ENVS 3430 3.0 or permission of the instructor.*

**ES/ENVS 4442 3.0 Environmental Monitoring and Auditing.** Concepts and practices in environmental monitoring are discussed and illustrated through case studies. Emerging theory and practice in environmental auditing are explored through an on-site auditing exercise.

*Prerequisite: ES/ENVS 3430 3.0 or permission of the instructor.*

**ES/ENVS 4510 3.0 Environmental Economics II.** This course provides an introduction to the emerging new field of ecological economics. Areas of focus include the appropriate scale of the economy in relation to the environment, the role of discount rates in mediating intergenerational and interspecies equity, environmental valuation, full-cost accounting, environmental risk assessment, and the application of thermodynamic and ecological principles in economic analysis.

*Prerequisite: ES/ENVS 3510 3.0 or permission of the instructor.*

**ES/ENVS 4520 3.0 Geographical Information Systems Applications in Environmental Studies.** This course focuses on advanced applications of Geographic Information Systems to topics related to planning and resource management. The technical aspects of GIS applications will be explored along with considerations related to database development. Students will gain hands-on experience with data input through scanners and digitizers, and with GIS analyses using both vector and raster data models. A significant part of the course will involve the development of a GIS database for analysis through group projects.

*Prerequisite: ES/ENVS 3520 3.0 or the permission of the instructor.*

**ES/ENVS 4521 3.0 Remote Sensing and Image Processing for Geographical Analysis and Environmental Monitoring.** Sophisticated methods and techniques for collecting, processing and analysing remote sensing data are examined. Special topics include image enhancement techniques (e.g. texture transforms), non-traditional image classification and data products into geographic information systems (GIS).

*Cross-listed course: also offered as AS/SC/ GEOG 4440 3.0.*

*Prerequisites: ES/ENVS 3521 3.0, AS/SC/GEOG 3440 3.0 or written permission of the course director.*

**ES/ENVS 4530 3.0 Risk Assessment in Resource Management.** Theories and concepts of "risk" are discussed and evaluated critically with respect to public policy for the resources sector. The analytical framework employed distinguishes between risk estimation, risk evaluation and risk management and communication activities. Resource management issues are analyzed with a focus on energy policy in Canada, in the context of environment-energy interactions.

*Cross-listed course: also offered as AS/SC/ GEOG 4160 3.0.*

*Prerequisite: Fourth-year ENST specialty or permission of the instructor.*

**ENVS 4800Q 3.0 Urban Development Processes.** Critical investigation of approaches to, and topics in, processes of urban growth, decline, development and redevelopment. 20th-century theories of urbanization are examined and their relevancy for understanding selected recent urban problems are studied.

*Integrated Course: ENVS 5021.*

*Prerequisite: Fourth-year standing or permission of the instructor.*

## European Studies – Arts

### Program Office:

Vanier

### Program Coordinator:

TBA

### Program Advisers:

W. Ahrens, S520 Ross, 416-736-5016;  
A. Shubert; M. Webber, 230 York Lanes, 416-736-5695

European Studies is an Honours Double Major Interdisciplinary BA program that can be pursued jointly with another Honours BA program in the Faculty of Arts such as Economics, German, History, Political Science or Women's Studies. As an Honours Double Major program, European Studies permits students to apply their knowledge of a specific discipline to the study of Europe, which is defined as broadly as possible, to include Eastern and Central Europe, the Balkans, Southeastern Europe, Russia and Turkey, as well as Western Europe. In consultation with the program coordinator, students will be able to design a program of study which meets their own particular interests by choosing from among a wide variety of courses from a number of departments and divisions. In areas such as France, Germany, Italy, Spain and Russia, students may focus on a national or regional stream.

Students in European Studies courses benefit from the existence of the Canadian Centre for German and European Studies. Although its resources are aimed at the graduate level, many guest lectures and materials housed in the centre are also suitable for students at the undergraduate level.

For the specific requirements of this program, please consult the Faculty of Arts "Programs of Study" section of this Calendar.

### Departmental and Divisional Courses in European Studies

For course descriptions, please refer to the appropriate departmental/divisional listings in this Calendar or the relevant departmental/divisional supplemental calendar. Not all of the courses listed below will be offered every year. For course offerings in any given year, please consult the European Studies supplemental calendar.

*Note: Several additional Special Topics courses may be offered in any given year. Students may take relevant Special Topics courses for major credit towards European Studies subject to the approval of the program coordinator. Please consult the European Studies supplemental calendar or relevant departmental/divisional supplemental calendar for further details. Students may take courses for major credit in European Studies through Atkinson, Glendon College and the Faculty of Fine Arts subject to degree credit exclusion and in-Faculty regulation and with the approval of the program coordinator.*

*Note: For purposes of meeting program requirements, all Foundations courses will count as six credits toward the major.*

### Required Course:

**AS/HUMA 2195 9.0 Defining Europe: Introduction to European Studies.** An introduction to European Studies from the Medieval period to the present, exploring the subject both thematically and chronologically using an interdisciplinary approach. The course draws on a diverse range of sources, incorporating literature, art and film.

### Other Courses in European Studies:

AS/ANTH 3120 6.0 The Anthropology of Tourism  
AS/ECON 3120/3139 3.0 Economic Development in Europe before the Industrial Revolution  
AS/ECON 3130/3139 3.0 Economic Development in Europe from the Industrial Revolution to the Present  
AS/EN 2550 6.0 The European and British Novel: 1880-1930.  
AS/EN 2770 6.0 Modern Drama.  
AS/GEOG 3040 6.0 Geography of Europe.  
AS/HIST 2200 6.0 Medieval Europe.  
AS/HIST 2220 6.0 Medieval and Early Modern Europe.  
AS/HIST 3200 6.0 Structure and Function in the Institutions of Medieval Society.  
AS/HIST 3225 6.0 At the Fringes of the Medieval West.  
AS/HIST 3230 6.0 The Renaissance.  
AS/HIST 3233 6.0 Women in Medieval and Early Modern Europe.  
AS/HIST 3365 3.0 European Fascism: 1890-1945.  
AS/HIST 3391 6.0 Italy, Spain and Portugal since 1800.  
AS/HIST 3809 6.0 History of the Christian Church: Beginnings to the Reformation (cross-listed to: AS/HUMA 3780 6.0).  
AS/HIST 3810 6.0 History of the Christian Church: Reformation to the Present (cross-listed to: AS/HUMA 3781 6.0).  
AS/HIST 4200 6.0 Culture and Society in Medieval Europe.  
AS/HIST 4250 6.0 Mediterranean Societies, 1500-1620.  
AS/HIST 4260 6.0 Topics in Early Modern European Social and Cultural History.  
AS/HIST 4350 6.0 European Thought in Crisis: The Shape of European Thought in the Early 20th Century.  
AS/HIST 4360 6.0 Europe Between the Wars, 1918-1939.  
AS/HIST 4370 6.0 East European Nationalism and Independence.  
AS/HUMA 2140 6.0 Renaissance and Baroque Art and Architecture (cross-listed to: FA/VISA 2560 6.0).  
AS/HUMA 2170 6.0 Modern Art: 1750 to the Present (cross-listed to: FA/VISA 2620 6.0).  
AS/HUMA 3780 6.0 History of the Christian Church: Beginnings to the Reformation (cross-listed to: AS/HIST 3809 6.0).  
AS/HUMA 3781 6.0 History of the Christian Church: Reformation to the Present (cross-listed to: AS/HIST 3810 6.0).  
AS/PHIL 2010 3.0 Origins of Western Philosophy (cross-listed to: AK/PHIL 2010 3.0).  
AS/POLS 3020 3.0 Political Thought of the Renaissance and Reformation.

AS/POLS 3040 6.0 Currents in Modern Political Theory.  
AS/POLS 3530 3.0 Western European Politics.  
AS/POLS 4435 3.0 The Extreme and Neo-Fascist Right in Contemporary Europe.  
AS/POLS 4440 3.0 Human Rights in Europe and Canada: A Comparative Approach.  
AS/POLS 4445 3.0 European Union.  
AS/POLS 4530 3.0 Crisis and Collapse of the Soviet Bloc.  
AS/SOSC 2730 6.0 The Culture of Cities.  
AS/SOSC 3241 3.0 Labour and Globalisation II: Comparative Perspectives.  
AS/SOSC 3580 6.0 Society and Economy in Transition: The Experience of Post Communist Countries.  
AS/SOCI 4460 3.0 Sociology Understandings of Genocide.  
AS/AK/GL/WMST 2502 6.0 Western Feminism in a Cultural Context.  
AS/AK/GL/WMST 2502 6.0 Les écrits féministes à travers l'histoire occidentale.  
AS/AK/GL/WMST 3515 3.0 Renaissance Women.  
AS/AK/GL/WMST 3515 3.0 La femme à la Renaissance.

### Atkinson

AK/ECON 3710 6.0 European Economic History.  
AK/EN 3315 6.0 Self and Society in the European Novel (cross-listed to: AK/HUMA 3340 6.0).  
AK/EN 3510 6.0 Modern Drama (cross-listed to: AK/THFA 3430 6.0).  
AK/EN 3580 6.0 Trends in Modern European Literature.  
AK/FILM 3440 3.0 European Cinema: Post War (cross-listed to: FA/FILM 3220A 3.0).  
AK/FILM 3441 3.0 European Cinema: 1960 – present (cross-listed to: FA/FILM 3220B 3.0).  
AK/HIST 2510 6.0 The Medieval World.  
AK/HIST 2520 6.0 History of Modern Europe.  
AK/HUMA 1720 6.0 Roots of Western Culture: The Modern Period (1500-1900).  
AK/HUMA 1750 6.0 Roots of Western Culture: The Contemporary Period (1900 to present).  
AK/HUMA 3300 6.0 Medea to Mother Courage: Tragedy in Western Literature.  
AK/HUMA 3340 6.0 Self and Society in the European Novel (cross-listed to: AK/EN 3315 6.0).  
AK/MUSI 2220 6.0 History of European Music.  
AK/PHIL 2010 3.0 Origins of Western Philosophy (cross-listed to: AS/PHIL 2010 3.0).  
AK/VISA 3400 6.0 Art and Architecture of the Medieval World.  
AK/VISA 3420 6.0 Renaissance and Rococo.  
AK/VISA 3430 6.0 19th- and 20th-Century European Art.

### Fine Arts

FA/FILM 3220A 3.0 European Cinema: Post War (cross-listed to: AK/FILM 3440 3.0).  
FA/FILM 3220B 3.0 European Cinema: 1960 – present (cross-listed AK/FILM 3441 3.0).  
FA/MUSI 3310 6.0 Music in the Modern Era.  
FA/MUSI 3340 6.0 History of European Music.  
FA/VISA 2560 6.0 Renaissance and Baroque Art and Architecture (cross-listed to: AS/HUMA 2140 6.0).

## Film & Video – Fine Arts

### Department Office:

225 Centre for Film and Theatre, 416-736-5149

### Chair of the Department:

S. Feldman

### University Professor:

S. Feldman

### Professor:

P. Morris

### Associate Professors:

T. Barta, A. Buchbinder, E. W. Cameron, B. Evans, S. Feldman, J. Fisher, S. Forsyth, A. Lhotsky, J. Marchessault, S. Young

### Associate Professors Emeriti:

D. Davidson, V. Vaitiekunas

### Assistant Professors:

P. Hoffman, M. Rickard

### Adjunct Professor:

P. Hoffert

## Programs of Study

York University's Department of Film & Video enables students to explore the media of film and video through a program of production, screenwriting, critical, historical and theoretical studies. An undergraduate can specialize in any one of the previously mentioned areas, but must take some courses in each area. All Honours Film & Video majors must complete 12 credits in historical and theoretical studies, FA/FILM 1400 6.0 and FA/FILM 2400 6.0, and at least 24 credits at the 3000 level or above, of which at least half are within the student's area of concentration. Students concentrating in critical, historical and theoretical studies will receive an Honours BA degree. They are required to complete a minimum of 48 credits in the department, and must include among their upper-level requirements FA/FILM 3410 3.0, FA/FILM 4800 3.0, and at least three further credits at the 4000 level. They must also complete at least six credits in production, either FA/FILM 1010 3.0 and FA/FILM 1020 3.0, or FA/FILM 2040 6.0. Students concentrating in production or screenwriting will receive an Honours BFA degree. They are required to complete a minimum of 60 credits within the department, and must include among their upper-level requirements one of FA/FILM 4100 6.0 (formerly FA/FILM 4010 6.0, FA/FILM 4020 6.0) or FA/FILM 4120 6.0.

For production students, the Film & Video program encourages a blend of the conceptual areas of writing, directing and producing, while providing a professionally oriented background in the creative crafts of cinematography, editing and sound. Our intention is to provide each student with a marketable skill in addition to a broad education in film and video. Production students should be aware that the department does not provide a full subsidy for the sometimes heavy cost of film and video production. Some courses have additional fees which cover part of the general cost of the courses but in most film production courses

students will be required to purchase additional supplies at their own expense and to pay damage deposits. Due to facilities available, spaces in upper-year courses are limited.

## York-Sheridan Joint Program in Film & Video and Media Arts

Film & Video students concentrating in production may study towards an Honours BFA degree and a diploma in one of five areas of study in the Media Arts program at Sheridan College. The joint program allows a full-time student to complete an Honours BFA degree in Film & Video at York and a three-year diploma in Sheridan's Media Arts program, normally in five years of study. Participants must successfully complete 90 credits (15 full course equivalents) at York University comprising years 1, 2 and 3 of the Film & Video production stream before enrolling at Sheridan College. During years 4 and 5, students take the equivalent of years 2 and 3 of Sheridan's Media Arts program. Sheridan Media Arts offers specialization in audio, multimedia, television and film. In addition, York students will participate in Sheridan's 12-week field placement program.

## Admission Requirements and Procedures

Students who wish to enter the joint degree/diploma program must apply to the department program office by March 31 of their third academic year at York. Minimum academic standing for applicants is a 6.0 cumulative grade point average. Applicants must have successfully completed:

- the Faculty of Fine Arts General Education requirements;
- 12 Fine Arts elective credits outside Film & Video;
- 6 non-Fine Arts elective credits;
- a minimum of 42 Film & Video credits including FA/FILM 1010 3.0, FA/FILM 1020 3.0, FA/FILM 1400 6.0, FA/FILM 2010 6.0, FA/FILM 2020 3.0, FA/FILM 2170 3.0, FA/FILM 2400 6.0, FA/FILM 3010 6.0 and FA/FILM 3020 6.0.

Information and application materials may be obtained from Room 225 Centre for Film and Theatre, 416-736-5149. Applications must include two letters of reference to be sent directly to the York coordinator by the referees. Prospective candidates will be interviewed by the York and Sheridan Selection Committees. Programs will be tailored to each student through discussion with the coordinators.

## Courses in Film & Video

Some upper-year courses are not offered on an annual basis; some courses listed below may not be offered during the current academic session. Consult the Film & Video department office for further information.

**FA/FILM 1010 3.0 Introduction to Filmmaking I.** This course introduces the student to the concepts, formats and visual elements of the film as it progresses from the

script to the screen. The emphasis for this course is the primary scripting techniques used in both documentary and dramatic screenwriting and devices for translating ideas into moving images on the screen.

*Note: Required of all first-year Film & Video majors specializing in production and/or screenwriting. Enrolment is limited to Film & Video majors.*

**FA/FILM 1020 3.0 Introduction to Filmmaking II.** This course offers instruction in the fundamental concepts, procedures and techniques of visual and audio production as an idea is taken from the script to the screen. Course work includes the production of several short projects in various formats. Students are required to purchase production materials.

*Prerequisite or corequisite: FA/FILM 1010 3.0.*

*Note: Required of all first-year Film & Video majors specializing in production and/or screenwriting. Enrolment is limited to Film & Video majors.*

**FA/FILM 1400 6.0 Film Art: An Introduction.** An introduction to the aesthetics, theory and history of film. Lectures concentrate on the elements of film, including narrative structure, visual composition and the uses of sound and editing. Documentary, experimental and feature films are encompassed.

*Note: Required of all Film & Video majors and minors. Open to non-majors. Four hours.*

**FA/FILM 2010 6.0 Film and Video Production.** The second-year course offers an intensive exploration of the techniques basic to film and electronic production. The emphasis is on producing several short subjects in both media for the widest possible experience and exploration of different forms in both media. Four hours.

*Prerequisites: FA/FILM 1010 3.0, FA/FILM 1020 3.0, FA/FILM 1400 6.0 and permission of the production committee.*

*Corequisite: FA/FILM 2020 3.0 and FA/FILM 2170 3.0.*

**FA/FILM 2020 3.0 Post-Production.** Step-by-step practical experience in creative and technical aspects of editing from the receipt of rushes to the final sound mix. Procedures and processes under discussion will include synching, cataloguing, picture and sound editing, music and sound effects lay-up and re-recording. Three hours. Additional fee required.

*Prerequisite: FA/FILM 1010 3.0, FA/FILM 1020 3.0 and permission of the production committee.*

*Corequisite: FA/FILM 2010 6.0.*

**FA/FILM 2040 6.0 Video and Filmmaking.** Theoretical and practical familiarization with small format video and filmmaking through lecture-demonstration and studio exercises. Working in groups, students will produce short projects in both media. Four hours.

*Prerequisite: Permission of the production committee.*

*Note: Not intended for students concentrating in film and video production.*

**FA/FILM 2120 6.0 Screenwriting II.** Visual literacy, film genres, formats and stages of screenwriting are explained. The course includes both non-fiction and fiction. Students also make presentations on their work in progress. Series of assignments complement the lectures, screenings and seminars. Three hours.

*Prerequisite:* Film & Video majors: FA/FILM 1010 3.0 and FA/FILM 1020 3.0 and permission of the course director. Non-majors: permission of the course director.

**FA/FILM 2170 3.0 Production Planning and Management.** A practical course in film and video production planning including: script breakdown, scheduling, budgeting, financing, legal issues, collective agreements and administrative procedures. Three hours.

*Prerequisites:* FA/FILM 1010 3.0 and FA/FILM 1020 3.0 and permission of the production committee.

*Corequisites:* FA/FILM 2010 6.0 and FA/FILM 2020 3.0.

**FA/FILM 2400 6.0 Theories of Filmmaking.** An intensive study of the theories of film, with particular attention to montage, mise-en-scène, auteur, genre and other classical and contemporary conceptions; relevant readings and screenings of key films. Four hours.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director for non-Film & Video majors and minors.

*Note:* required of Film & Video majors. Open to non-majors.

**FA/FILM 2401 6.0 Film, Television and Society.** An examination of the interrelationship between film and television and the societies in which they operate. Issues discussed include the ideological and political ramifications of film and television, as well as their relevance in relation to individual and social identity. Four hours.

*Cross-listed to:* AS/HUMA 2740 6.0.

*Note:* open to non-majors. Not open to first-year students.

**FA/FILM 2500 6.0 Stage and Screen.** Drawing on dramatic texts and film and video resources, this interdisciplinary course explores and celebrates the relationship between theatre and film, including the stylistic and structural principles of live theatre and motion pictures as distinctive media, and theatre reconceived and adapted for cinema and television. The course includes outstanding plays, films and attendance at live theatre performance.

*Cross-listed to:* FA/THEA 2500 6.0.

*Note:* not open to Theatre or Film & Video majors except by special permission.

**FA/FILM 3010 6.0 Film Production.** Practical studies in all aspects of filmmaking through small group production of short 16mm films. Emphasis is placed on the creative aspects of film production and the achievement of professional standards in the course work. Three hours.

*Prerequisites:* FA/FILM 2010 6.0, FA/FILM 2020 3.0 and permission of the production committee.

*Corequisites:* FA/FILM 3020 6.0.

**FA/FILM 3020 6.0 Video Production.** Practical studies in all aspects of video through small group production of short video projects. Emphasis will be placed on the achievement of professional standards in the course work. Three hours. Additional fee required.

*Prerequisites:* FA/FILM 2010 6.0, FA/FILM 2020 3.0 and permission of the production committee.

*Corequisites:* FA/FILM 3010 6.0.

**FA/FILM 3120 6.0 Screenwriting III.** A detailed investigation of writing fictional and non-fictional scripts. Analysis of structure and characters in fictional genres: horror, musical, comedy, western, thriller etc. Students make presentations on their work in progress. Assignments in screenwriting complement the lectures, screenings and seminars. Three hours.

*Prerequisites:* FA/FILM 2120 6.0 with a final grade of B or higher and permission of the course director.

**FA/FILM 3130 3.0 Film Editing: Practical Technique.** Step-by-step practical experience in the editing of a synchronized dialogue sequence from the receipt of "rushes" to final mix including synching, edge-coding, cataloguing, picture and sound editing, music and sound effects recording and transfer, and re-recording. Four hours. Additional fee required.

*Prerequisites:* FA/FILM 2010 6.0 or equivalent and permission of the production committee.

**FA/FILM 3140 3.0 Film Editing: Theory and Analysis.** Through readings, screenings, detailed analysis and discussion students thoroughly review the principles of pictorial continuity and study the function of editing in outstanding films of various countries, periods and styles. Three hours.

*Prerequisites:* FA/FILM 2010 6.0 or equivalent and permission of the production committee.

**FA/FILM 3150 3.0 Sound for Film and Video.** An intensive exploration of sound for film and video productions, including instruction and practice in the processes of recording and the editing, interlocking and mixing of sound and music. Three hours. Additional fee required.

*Prerequisites:* FA/FILM 2010 6.0 and FA/FILM 2020 3.0 and permission of the production committee.

**FA/FILM 3201 6.0 Directing/Acting Workshop.** This course explores the complex interaction between the director and the actor. By developing an awareness of and a sensitivity to the nuances of acting for the camera, the aspiring director will acquire the skills necessary to guide the actor towards achieving the quality most essential to an effective performance - believability.

*Prerequisites:* FA/FILM 2010 6.0, FA/FILM 2020 3.0, FA/FILM 2400 6.0 and permission of/ interview by the course director.

**FA/FILM 3210 3.0 The American Film I.** A survey of the major events and significant trends involved in the development of American fiction and documentary film from its beginnings through the classical studies period. Four hours.

*Cross-listed to:* AS/HUMA 3430 3.0.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3211 3.0 The American Film II.** The development of American cinema since the Second World War including the break-up of the studio system, the changing styles of American feature films and of documentary since the advent of network television. Four hours. (Same as AS/HUMA 3431 3.0)

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3320 3.0 Studies in European Cinema.** Courses examining the cultural background and filmic achievements of selected European cinemas from 1895 to the present day. Selected topics vary from year to year. Four hours.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3250 3.0 The Director's Cinema.** Intensive critical examination of stylistic and thematic elements in the work of selected filmmakers in order to understand both their contributions to cinema and their individual perceptions. These courses also explore various theories of authorship. Four hours.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3300 3.0 Television/Video: Theory and Criticism.** An application of contemporary theory and criticism to the varied products of electronic imagemaking including broadcast television entertainment, news, sports and special features; video art; video documentary; video installations; computer generated electronic imagery. Also considered are the history and social impact of these productions. Three hours.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3310 3.0 Studies in the Documentary.** The creative interpretation of actuality in film, from Flaherty to direct cinema and television. A study of changing forms, techniques and theories of documentary; its role in public information, propaganda and social analysis. Four hours.

*Prerequisites:* FA/FILM 1400 6.0 or FA/FILM 2401 6.0 or permission of the course director.

**FA/FILM 3320 3.0 The Experimental Tradition.** An examination of the experimental impulse in film and video from the European avant-garde cinema of the 1920s to the present. Four hours.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3321 3.0 Alternative Cinema.** An examination of movements within the cinema whose work have traditionally been less publicly accessible. Personal cinema and political films may be included. Four hours.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3400 3.0 Issues in Film Historiography.** This course examines the methods and approaches possible in the study of film history, especially those specific or unique to film. It emphasizes the posing of historical questions, the conducting of research, the analyzing of evidence and the development of conclusions. The course uses particular examples drawn from film history to illustrate issues, problems and approaches.

*Prerequisite:* FA/FILM 2400 6.0 or permission of the instructor.

**FA/FILM 3401 3.0 Canadian Film and Television.** Selected aspects of Canadian film and television from its beginnings to the present day. Topics examined may include the film and television industries; the role of state media institutions; the development of mainstream Canadian cinema; alternative film practices; regional filmmaking; the critical analysis of Canadian film and the work of particular filmmakers. Four hours.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3410 3.0 Readings in Film and Television Theory.** An intensive reading and discussion course exploring the debates that have developed around film and television as cultural forces in the 20th century. Though readings in classical theory are included, the primary emphasis will be on contemporary theory. The course also includes discussions of, and practice in, research methodology. Three hours.

*Prerequisite:* FA/FILM 2400 6.0 or permission of the course director.

*Note:* Required of all Film & Video majors concentrating in theory and criticism.

**FA/FILM 3420 3.0 Studies in Genre.**

Courses examining the concept of genre in popular cinema, its cultural significance and relationship with social and historical determinants and the relevance of genre study within critical methodology. Each offering focuses on a particular genre; see the Film & Video department handbook for details. Four hours.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3500 6.0 Special Topics in Film/Television (Directed Seminar Studies).** Directed seminar studies in various areas of special interest to faculty and students. Consult the department office for further information on yearly offerings. Three hours.

*Prerequisite:* To be announced, depending on subject matter. By permission of the course director.

**FA/FILM 3501 6.0 Special Topics in Film/Television (Studio Workshops).** Studio workshops in various areas of special interest to faculty and students. Consult the department office for further information on yearly offerings. Three hours.

*Prerequisite:* To be announced, depending on subject matter. By permission of the course director.

**FA/FILM 3510 6.0 Television Workshop.** A workshop to acquaint students majoring in Mass Communications with television production. Four hours. Additional fee required.

*Prerequisite:* Permission of the Director of Mass Communications.

**FA/FILM 3600 3.0 Special Topics in Film/Television (Directed Seminar Studies).** Directed seminar studies in various areas of special interest to faculty and students. Consult the department office for further information on yearly offerings. Three hours.

*Prerequisite:* To be announced, depending on subject matter. By permission of the course director.

**FA/FILM 3601 3.0 Special Topics in Film/Television (Studio Workshops).** Studio workshops in various areas of special interest to faculty and students. Consult the department office for further information on yearly offerings. Three hours.

*Prerequisite:* To be announced, depending on subject matter. By permission of the course director.

**FA/FILM 3610 3.0 Studies in National Cinemas.** Focusing on Oriental cinemas and the cinemas of developing nations, these courses explore issues involved in defining a national cinema, including particular cultural characteristics and themes, modes of narrative, significant directors and relations between a national cinema and the international context. Each course focuses on the films of a particular country or area. Three hours.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3710 6.0 Japanese Culture, Literature and Film.** By comparing works by Japanese authors with related films, this course explores basic patterns and themes of Japanese culture.

*Cross-listed to:* AS/HUMA 3420 6.0 and AS/JP 3720 6.0.

**FA/FILM 3810 3.0 Women and Film I.** An examination from a feminist perspective of the ways in which women have been presented in the cinema (both "mainstream" and "alternative") and of the achievements of women filmmakers. Four hours. (Same as AK/FILM 3230 3.0.)

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3811 3.0 Women and Film II.** This course takes students through the history of woman-authored cinema from early avant garde counter cinema, through documentary to current narrative and popular cultural practices. Issues include feminist aesthetics, the formation of spectatorial communities and the intersection of gender concerns with issues of sexual orientation, nationality, race and ethnicity.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 3910 3.0 Jewish Film I/FA/FILM 3911 3.0 Jewish Film II.** This course looks at how Jews have been depicted in world cinema by investigating how films of various genres have portrayed Jewish characters and dealt with Jewish themes.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 4100 6.0 Film and Video Production.** An honours thesis course in film and video production.

*Prerequisites:* FA/FILM 3010 6.0, FA/FILM 3020 6.0 and permission of the production committee.

*Degree credit exclusions:* FA/FILM 4010 6.0, FA/FILM 4020 6.0.

*Note:* Open only to Film & Video majors.

**FA/FILM 4120 6.0 Advanced Screenwriting.** Advanced practice in the art of screenwriting; adaptations and original scripts ranging from half-hour to feature-length works. Three hours.

*Prerequisites:* FA/FILM 3120 6.0 with a final grade of B+ or higher and permission of the course director.

**FA/FILM 4160 3.0 Cinematography.** An intensive exploration into lighting and the principles of photography for film and video production. Four hours.

*Prerequisites:* FA/FILM 3010 6.0, FA/FILM 3020 6.0 and permission of the production committee.

**FA/FILM 4201 6.0 Acting and Directing.** A workshop course in acting and directing for the screen through the practical application of film techniques in the recording and editing of dramatic scenes. Analysis of work in progress and of finished productions is an integral part of the course. Four hours. Open to third- and fourth-year Film & Video and Theatre majors.

*Prerequisites:* FA/FILM 3010 6.0 and FA/FILM 3020 6.0 for Film & Video majors and permission of the production committee. Theatre majors must be members of the fourth-year Acting Ensemble.

**FA/FILM 4500 6.0 Special Topics in Film/Television (Directed Seminar Studies).** Directed seminar studies in various areas of special interest to faculty and students. Consult the department office for further information on yearly offerings. Three hours.

*Prerequisite:* To be announced, depending on subject matter. By permission of the course director.



**FA/FILM 4501 6.0 Special Topics in Film/Television (Studio Workshops).** Studio workshops in various areas of special interest to faculty and students. Consult the department office for further information on yearly offerings. Three hours.

*Prerequisite:* To be announced, depending on subject matter. By permission of the course director.

**FA/FILM 4600 3.0 Special Topics in Film/Television (Directed Seminar Studies).** Directed tutorial studies in various advanced areas of special interest to faculty and students. Consult the department office for further information on yearly offerings. Hours to be arranged.

*Prerequisite:* To be announced, depending on subject matter. By approval of department faculty and permission of the course director.

**FA/FILM 4601 3.0 Special Topics in Film/Television (Studio Workshops).** Studio workshops in various areas of special interest to faculty and students. Consult the department office for further information on yearly offerings. Three hours.

*Prerequisite:* To be announced, depending on yearly subject matter. By permission of the course director.

**FA/FILM 4700 3.0 Canadian Cinema: Production, Distribution, Exhibition, Marketing and Criticism.** This course is designed to familiarize students with the inner workings of the Canadian film industry. Using case study approach, most aspects of film production are investigated.

*Prerequisite:* FA/FILM 1400 6.0 or permission of the course director.

**FA/FILM 4800 3.0 Honours Thesis.** This course is designed to provide history and criticism students with a focused research and writing project as a culmination of their undergraduate degree.

*Prerequisite:* FA/FILM 3410 3.0 and permission of the course director.

*Note:* Required of all Film & Video majors concentrating in history and criticism. Consult the department office for more details.

**FA/FILM 4900 3.0/4900 6.0 Independent Studies in Film/Television.** Open to fourth-year students, the course gives the individual student an opportunity to pursue a specific and intensive personal study under the supervision of a faculty member on topics not offered in other courses within the department. Proposed topics are subject to departmental approval.

*Note:* Open by petition to the department.

**FA/FILM 4901 3.0/4901 6.0 Independent Studies in Film/Television.** Open to fourth-year students, the course gives the individual student an opportunity to pursue a specific and intensive personal study under the supervision of a faculty member on topics not offered in other courses within the department. Proposed topics are subject to departmental approval.

*Note:* Open by petition to the department.

## Fine Arts Cultural Studies – Fine Arts

### Division Office:

281 Winters College, 416-736-5822

### Coordinator of the Fine Arts Cultural Studies Program

P. Morris

### University Professor:

J. Zemans

### Professors:

G. Métraux, P. Morris, D. Rubin, M. Thurlby, T. Whiten

### Associate Professors:

A. Blewchamp, J. Cohnstaedt, B. Diamond, B. Evans, J. Jones, J. Marchessault, P. McKinnon, R. Perry

### Assistant Professors:

G. Halls, P. Hoffman, L. Korrick, S. Porter, M. Rickard, Y. Singer

### TEL Assistant Professor:

R. Wickens

Fine Arts Cultural Studies offers courses which explore the ways in which the arts interact with each other and with the humanities and social sciences. A number of the Faculty's artists and scholars work in areas which overlap the traditional subjects of dance, film and video, music, theatre, and visual arts.

Courses offered within the Fine Arts Cultural Studies focus upon contemporary and innovative approaches to both the study and practice of the fine arts. Courses on popular culture and critical theory, arts administration, and interactive multimedia studio courses are offered through this division.

Students pursuing Honours Major or Minor programs in Fine Arts Cultural Studies are required to take 30 credits in courses from the Fine Arts Cultural Studies offerings. For other Fine Arts students, these courses count as fine arts electives. Some of these courses are open to all students in the University as electives. Not all courses are offered every year.

## Courses in Fine Arts Cultural Studies

*Please note: not all courses are offered every year.*

### FA/FACS 1900 6.0 Arts and Ideas. A

thematic introduction to the fine arts through a study of their interrelationships and underlying ideas. This course develops an understanding of the arts through presentations of contemporary work by visiting artists, selected readings and critical analysis. Students' abilities to observe, analyse and write about the arts are stressed. Required of first-year Fine Arts Cultural Studies majors and minors. Required of all Faculty of Fine Arts students admitted to a first undergraduate degree in 1997-1998 or later. Open to both Fine Arts and non-Fine Arts students.

*Degree credit exclusion:* FA/INFA 1900 6.0.

**FA/FACS 1930 6.0 The Arts Mosaic: Theory and Practice.** This interdisciplinary course provides an introduction to the theory and practice of the arts in contemporary multimedia, popular culture and intercultural contexts. The course includes both lectures and practicum.

*Degree credit exclusion:* FA/INFA 1930 6.0.

**FA/FACS 1940 6.0 Creative Writing: The Process of the New.** This course is an innovative combination of creative writing studios and general lecture. This format is to both promote and inspire creativity, and to encourage and develop an imaginative and intellectual perception of the fine arts, literature and the media in the 20th century.

*Cross-listed to:* FA/WC 1940 6.0.

*Degree credit exclusion:* FA/INFA 1940 6.0.

**FA/FACS 2900 6.0 Arts, Societies, Histories.** An introduction to the social history of the arts, emphasizing the relationships of the arts to the societies in which they were made. This course begins by investigating various definitions of history, culture and society. The philosophical, ideological and aesthetic ideas of a period and how these relate to and influence the arts are then studied through an interdisciplinary approach to culture and context. Assignments emphasize the development of strong textual and bibliographic research skills. Fine Arts Cultural Studies majors and minors are required to take FA/FACS 2900 6.0 or FA/FACS 2920 6.0 as their second-year degree requirement. Open to all second-year students.

*Degree credit exclusion:* FA/INFA 2920 6.0.

**FA/FACS 2920 6.0 Special Studies in the Arts I.** A study of the arts in a particular geographical area or historical era. Topics are announced each spring.

### FA/FACS 2930 6.0 Interactive Multimedia I.

A practicum-oriented course that introduces students to the creative and artistic possibilities of interactive multimedia. Through individual and group projects using Macintosh computers, CD-ROM, the Internet, HyperCard and other multimedia software, students gain experience in the creation of multimedia works and develop the necessary skills to critically assess their work and other electronic art. Facility with computers and the Web using Netscape is highly recommended.

*Degree credit exclusion:* FA/INFA 2930 6.0.

### FA/FACS 2960 3.0 Creative and Critical Fictions.

A course promoting critical and creative thinking and writing around specific themes in cultural studies. The course encourages a blurring of genres and refuses a necessary separation between "creative" and "critical" writing. Students produce a variety of short assignments and participate in online writing circles.

*Prerequisite:* Second-year standing in the Faculty of Fine Arts or permission of the course director.

**FA/FACS 3400 3.0 The Cabinet of Curiosities.** This course takes as its point of departure the concept and construction of the encyclopaedic Wunderkammer or Cabinet of Curiosities and its more recent derivatives as a means of exploring a range of issues with a particular resonance for Cultural Studies.

*Prerequisites:* FA/FACS 1900 6.0 and third-year standing in the Faculty of Fine Arts, or permission of the course director.

**FA/FACS 3450 3.0 Leonardo Da Vinci and Multidisciplinarity.** This course explores the ideas and production of Leonardo da Vinci — among other things, a painter, sculptor, architect and urban planner, musician and composer, costume and stage designer, anatomist, engineer, mathematician, botanist and natural scientist — as a case study in multidisciplinarity.

*Prerequisites:* FA/FACS 1900 6.0 and third-year standing in the Faculty of Fine Arts, or permission of the course director.

**FA/FACS 3900 3.0/3900 6.0 Arts and Cultures.** Cultural difference and social context are examined from the perspective of post-colonial discourse. Seminars focus on implications of the subaltern position of other cultures relative to a dominant European episteme during colonialist expansion, entertaining emerging notions of world culture.

*Prerequisites:* FA/FACS 1900 6.0 and third-year standing or permission of the course director.

**FA/FACS 3920 3.0/3920 6.0 Special Studies in the Arts II.** A comparative study of the arts emphasizing a selected methodological, historical, geographic or cultural topic or theme.

*Prerequisite:* Third- or fourth-year standing in the Faculty of Fine Arts.

**FA/FACS 3930 6.0 Interactive Multimedia II.** An advanced level, individually directed, practicum oriented course that builds on Interactive Multimedia I. Students are involved in the creation of major individual and performance pieces and further exploration of the state of this art.

*Prerequisite:* FA/INFA 2930 6.0 or permission of the course director.

**FA/FACS 3931 6.0 Multimedia Installation and Performance.** This course gives students an opportunity to explore interactivity in public physical settings. Students create works where the performer and/or audience interact with media on the computer through means other than the keyboard and mouse.

*Prerequisite:* FA/INFA 2930 6.0 or permission of the instructor.

**FA/FACS 3950 6.0 Arts Administration.** The management of the arts in Canada is illustrated and analyzed through a survey of the history and development of arts management, and an examination of current practices, relating to both the performing and the visual arts. Extensive readings, lectures,

active class discussion, case analysis, simulations, field work, guest lectures and audio visual presentations are featured.

*Note:* Open to third- and fourth-year Fine Arts students.

**FA/FACS 4400 3.0 The Sensorium.** This seminar course will consider the five senses (which give humans the potential to see, hear, smell, taste and touch) and their impact on the production and reception of the arts from a range of perspectives.

*Prerequisites:* FA/FACS 1900 and fourth-year standing in the Faculty of Fine Arts, or permission of the course director.

**FA/FACS 4900 3.0/4900 6.0 Contemporary Issues in the Arts.** A seminar course that examines contemporary critical issues in the fine arts. Topics vary from year to year and may include ideas of modernism and postmodernism; the role of aesthetics; gender issues; performance theory; semiotics; and the influence of philosophy, sociology and psychology on current art practice. Where appropriate, visiting artists, critics and curators are invited for guest seminars.

**FA/FACS 4920 3.0/4920 6.0 Special Studies in the Arts III.** A comparative study of the arts emphasizing a selected methodological, historical, geographic or cultural topic or theme.

*Prerequisite:* Permission of the instructor.

**FA/FACS 4930 6.0 Cultural Theory and Interactive Multimedia Art.** This upper level course in both multimedia art and contemporary cultural theory is designed for students who have already achieved a significant level of accomplishment in both these areas. Students will undertake extensive theoretical research using both traditional and online resources. The result of that research will be integrated into advanced multimedia projects.

*Prerequisite:* FA/INFA 3930 6.0 and/or permission of the instructors.

*Note:* It is highly recommended that students have taken or will concurrently be taking courses in critical theory.

**FA/FACS 4940 6.0 Art, Music and Interdisciplinarity.** This seminar course explores a variety of relationships which have been established between art and music through the 20th century as well as some of the ways in which the disciplinary borders between them have been dissolved.

*Prerequisites:* FA/FACS 1900 6.0 and fourth-year standing in the Faculty of Fine Arts, or permission of the course director.

**FA/FACS 4950 3.0/4950 6.0 Independent Study.** An individualized program for students to pursue an independent project under the supervision of a faculty member on a topic not available in other courses in the program. Proposals should focus on interdisciplinary or cross-disciplinary issues of history, criticism and/or theory.

*Prerequisite:* Fourth-year standing.

*Note:* Applications are available in the spring for the following academic session. Applications must include the written support of a faculty supervisor prior to submission to the program for approval.

**FA/FACS 4960 3.0/4960 6.0 Senior Project.** An individualized program for fourth year students to pursue fields of study not offered in the regular curriculum. Projects might include preparing a creative work or performance, supplemented by an explanatory statement, or internship in an external organization.

*Prerequisite:* Fourth-year standing.

*Note:* Applications are available in the program office and must be signed by a faculty supervisor prior to submission to the program for approval. Guidelines for internships are also available from the program office.

## Founders College – Arts

**Academic Program Office:**

217 Founders, 416-736-5148

**College Master:**

Margo Gewurtz

**Academic Adviser:**

TBA

Listed below are the 1000-level and 2000-level nine-credit Foundations courses which are part of the Faculty of Arts General Education requirement. These courses introduce students to interdisciplinary study and emphasize critical thinking, reading and writing skills at the university level, and reflect the academic mandate of the college.

Students enrolling in Founders College Foundations courses, in either the Division of Humanities or the Division of Social Sciences, will be members of Founders College with access to academic advising, orientation programs, social and cocurricular events.

### 1000- and 2000-Level Courses

**AS/HUMA 1300 9.0 The Cultures of Resistance in the Americas: The African American Experience.** This course examines oppression and the ways in which Afro-American, Amerindian and racially-mixed communities in the Caribbean, Latin America, Canada and the United States use cultural patterns – the oral tradition, religion and ethics – both to comment on that oppression and to express alternatives.

*Degree credit exclusion:* AS/HUMA 1300 6.0.

**AS/HUMA 1400 9.0 Culture and Society in East Asia.** Introduction to traditional East Asian civilization by examining daily life in 18th-century Peking and Edo (Tokyo), and their rural hinterland. Topics include the physical setting, social distinctions and occupations, arts, and crafts, religion, literature and entertainment.

*Degree credit exclusion:* AS/HUMA 1400 6.0.

**AS/HUMA 1630 9.0 Forms of Fantasy.** This course explores the development of fantasy in the Western imagination through a variety of

interdisciplinary materials, with special emphasis given to the links between fantasy and culture, politics, marginality, and the articulation of unconscious desires.

*Degree credit exclusion: AS/HUMA 1630 6.0.*

**AS/HUMA 1960 9.0 Women, the Family and Children in Europe, 1150-1800.** This course examines ideas about, and practical realities concerning women, the family and children in Europe, 1150-1800.

*Degree credit exclusion: AS/HUMA 1960 6.0.*

**AS/HUMA 2310 9.0 An Introduction to Caribbean Studies.** This course introduces students to the major cultural characteristics of the contemporary Caribbean through an examination of the writers, artists and scholars of the region.

*Degree credit exclusion: AS/HUMA 2310 6.0.*

**AS/HUMA 2420 9.0 Introduction to Korean Culture.** This course offers an introduction to the study of Korean culture through a historical survey of literary, social, religious and political trends from ancient times to the present.

**AS/HUMA 2440 9.0 India: Life, Culture and the Arts.** This course examines contemporary life and society in India as it is going through a process of all round development, reintegrating traditions and responding to new influences.

*Degree credit exclusion: AS/HUMA 2000A 6.0.*

**AS/HUMA 2640 9.0 Modes of Fantasy.** In this 2000-level Foundations Course students study some of the principle modes and models of fantasy. In the first term three major modes of fantasy — literary, historical and psychological — are examined in detail, drawing on appropriate theoretical materials and fantasy texts. In the second term, four major models of fantasy are examined: Romance and Horror, and Utopias and Dystopias.

*Degree credit exclusion: AS/HUMA 2640 6.0.*

**AS/HUMA 2761 9.0 Italian Cinema and Society: From Neorealism to Postmodernism, 1945 to the Present.** The course focuses on 12 of the most significant films since World War II in the context of the radical changes that have taken place in Italy from the fall of Fascism to the present, and as critical statements on the phenomena connected with the rapid transformation of Italian society: industrialization and the "economic miracle", urbanization, the crisis of traditional values and postmodern fragmentation.

*Cross-listed to: AS/IT 2761 9.0.*

**AS/HUMA 2930 9.0 On Women: An Introduction to Women's Studies.** This course explores the social, political and economic institutions which shape women's lives, and introduces key theoretical approaches within feminist scholarship to investigate specific feminist issues in areas such as women's writing, visual representations, family, race, sexuality, women and work.

*Cross-listed to: AS/AK/GL/WMST 2510 9.0, AS/SOSC 2180 9.0.*

*Degree credit exclusions: AS/SOSC 2180 6.0, AS/HUMA 2930 6.0, GL/WMST 2950 6.0, GL/SOSC 2950E 6.0 GL/SOSC 2950F 6.0, GL/WMST 2950 6.0, AK/WMST 2000 6.0.*

**AS/HUMA 2990A 9.0 Aspects of Italian Culture.** This course aims to present and analyze some of the most interesting themes underlying the development of Italian intellectual life from the 14th century to the 19th century.

*Cross-listed to: AS/IT 2751 9.0.*

*Degree credit exclusions: AS/HUMA 2990A 6.0, AS/IT 2750 6.0, AS/IT 2751 6.0.*

**AS/SOSC 1210 9.0 Human Rights and Canadian Minorities.** This interdisciplinary course examines Canadian attitudes, institutional practices and government policies affecting opportunities for full participation in Canadian society for various Canadian minorities, ethnic and religious groups, homosexuals, women, the aged, disabled and poor. Strategies for change are critically analyzed.

*Degree credit exclusion: AS/SOSC 1210 6.0.*

**AS/SOSC 1430 9.0 Introduction to Development Studies.** This course introduces students to the field of Development Studies, which has emerged as a result of efforts to bring about "development" in Third World countries. It uses a critical and historical approach drawing on concrete case studies, to examine the assumptions, practices and consequences of development.

**AS/SOSC 1440 9.0 Introduction to Cross-Cultural Studies: the Family, Production and Social Groups.** The course introduces basic issues in social science. We examine various methods and approaches designed to help understand, analyze and predict human behaviour. In particular we will focus on families and work in a variety of different cultures.

*Degree credit exclusions: AS/SOSC 1000 6.0, AS/SOSC 1000 9.0 Section B.*

**AS/SOSC 2180 9.0 On Women: An Introduction to Women's Studies.** See description for AS/HUMA 2930 9.0.

*Cross-listed to: AS/AK/GL/WMST 2510 9.0, AS/HUMA 2930 9.0.*

**AS/SOSC 2480 9.0 Introduction to African Studies.** The course explores common themes in the social organization, history and cultural heritage of Africa's diverse peoples. It then moves to examine the impact of colonialism, and the struggle to develop politically and economically viable nation-states in the post-colonial era. The work of African writers, artists and statesmen furnishes an important contribution to the course's understanding of Africa, past and present.

*Degree credit exclusion: AS/SOSC 2480 6.0.*

**AS/WMST 2510 9.0 On Women: An Introduction to Women's Studies.** See description for AS/HUMA 2930 9.0.

*Cross-listed to: AK/GL/WMST 2510 9.0, AS/HUMA 2930 9.0, AS/SOSC 2180 9.0.*

## French Studies – Arts

### Department Office:

N727 Ross, 416-736-5086

Fax: 416-736-5734

### Web Address:

[www.yorku.ca/french](http://www.yorku.ca/french)

### Chair of the Department:

R. Mougeon

### Director of Undergraduate Studies:

L. Morrison

### Professors:

J. Cotnam, R. Mougeon, S. Villani

### Associate Professors:

M. Adriaen, N.L. Corbett, D. Cyr, Z. Ellis,

M. Lambert-Drache, P. Laurendeau,

A. Vercollier, D.M. Walker

### Assistant Professors:

M-C Pioffet, D. Uritescu

### Senior Lecturer:

A. Favrod

### Associate Lecturers:

D. Beausoleil, M. de Bie Waller, C. Dumont,

C. Marjollet, L. Morrison, S. Sévigny,

K. Whalen

### Faculty Members Emeriti:

J. Baron, H. Bouraoui, G. Echard,

G.D. Jackson, P.E. McConkey, J.E. Priestley

C.E. Rathé, R. Schattner, P. Yashinsky,

M. Zimmerman

## Courses in French Studies

The Department of French Studies offers courses in four curricular areas enabling students to pursue interests in French language, linguistics, literature and their respective context. The language-skills courses form a prescribed Language sequence designed to help students improve their proficiency in French. They constitute a curricular "core," which is complemented by offerings in Linguistics and Literature.

**A language placement questionnaire must be filled out by students prior to enrolling for the first time in the Department of French Studies.** Optionally, students may earn a Certificate of Proficiency in French by passing a set of examinations. Details are available from the departmental office. A basic introductory course is offered at the 2000-level every year in Linguistics and Literature and these lead to more specialized upper-level courses in each of these two areas. Students are free to limit their choice of optional courses to those in Linguistics or Literature or to select courses in both areas. Courses in French Studies have three class hours, unless otherwise indicated.

Not all courses are offered in all years. For information about specific offerings, and a more detailed description of offerings, students should consult the supplementary calendar available each spring from the departmental office. For specific requirements of programs offered by this department, please consult the Faculty of Arts "Programs of Study" section.

Students may consult with the Undergraduate Director in the department in order to plan a coherent program of study.

In order to proceed from one level of French Studies to the next (the four levels being 1000, 2000, 3000, 4000), a student must obtain a minimum grade of C in each language course. In order to proceed to AS/FR 4090 6.0, a minimum grade of B must be achieved in AS/FR 3080 6.0 or AS/FR 3180 6.0. If sufficient standing to proceed has not been achieved in any of the language courses, the course may be repeated once.

*Note: For a list of Atkinson courses which are degree credit exclusions, students should consult the degree credit exclusion/equivalent tables in the Lecture Schedule or the departmental/divisional supplemental calendars.*

## I. Language Course

(All instruction, discussion, written assignments and examinations in these courses will be in French.)

**AS/FR 1020 6.0 Elementary French, Near Beginners.** This course is designed for students who, although they are not complete beginners, have not studied sufficient French to be admitted to AS/FR 1030 6.0. The course involves the development of oral and written skills. Grammar and reading are also emphasized. Four class hours, plus lab sessions.

*Language of instruction: French.*

*Note: Students may only register in one of AS/FR 1010 6.0 or AS/FR 1020 6.0 through a language placement questionnaire which takes place between March 20 and September 5.*

**AS/FR 1030 6.0 Intermediate French.** This course is for students who have studied or had some contact with French, but not enough to enter AS/FR 1080 6.0. The aim of the course is to review, consolidate and develop oral and written skills. Special emphasis is placed on grammar. Four class hours, plus lab sessions.

*Language of instruction: French.*

*Prerequisite: AS/FR 1010 6.0 or AS/FR 1020 6.0 (with a minimum grade of C) or through a language placement questionnaire, which takes place between March 20 and September 5.*

**AS/FR 1080 6.0 Language and Culture in the French Speaking World.** An intensive course designed to improve the student's ability to speak, understand, read and write French. Guided and free conversation, grammar review, compositions, readings in French and French-Canadian literature. Three class hours, plus lab sessions.

*Prerequisite: AS/FR 1030 6.0 (with a minimum grade of C) or through language placement questionnaire, which takes place between March 20 and September 5.*

**AS/FR 2080 6.0 French Language and "Francophonie".** Oral practice, phonetics, conversation, listening comprehension, translation, grammar and composition. Three class hours, lab sessions and one conversation group.

*Prerequisite: AS/FR 1080 6.0 (with a minimum grade of C). Not open to students who have taken AS/FR 2070 6.0 (prior to 1997-1998).*

*Note: Students who completed AS/FR 2070 6.0 (prior to 1997-1998) and subsequently declared French as a major/minor, must then also complete AS/FR 2080 6.0.*

**AS/FR 3080 6.0 French Language and Society: Contemporary Themes.** Further study of French language, both oral and written. Class discussions and free compositions. Three class hours, one conversation hour and lab.

*Prerequisite: AS/FR 2070 6.0 (prior to 1997-1998) or AS/FR 2080 6.0 (with a minimum grade of C).*

*Degree credit exclusion: AS/FR 3180 6.0.*

**AS/FR 3180 6.0 French for the Workplace (Majors/Minors).** This course is designed to familiarize students with business areas such as business environment, marketing, management skills, and human resources functions (recruitment, training, internal communication, business culture), with the use of the appropriate terminology through in-class interaction.

*Note: Internet access is required for this course.*

*Prerequisite: AS/FR 2070 6.0 (prior to 1997-1998) or AS/FR 2080 6.0 (with a minimum grade of C).*

*Degree credit exclusion: AS/FR 3080 6.0.*

**AS/FR 4090 6.0 Language and Techniques of Communication.** This course is designed for students who are already fluent in French. It is a study of communication techniques and also of the expressive resources and research methods used in various media and in public communication. Three class hours.

*Prerequisite: AS/FR 3080 6.0 or AS/FR 3180 6.0 (with a minimum grade of B).*

## II. French Linguistics Courses

(All instruction, discussion, written assignments and examinations in these courses will be in French.)

*Note: The courses identified with an asterisk (\*) are offered alternate years. Check the departmental calendar for yearly offerings. All 3000- and 4000-level Language and Linguistics courses require AS/FR 2100 6.0 as a prerequisite.*

**AS/FR 2100 6.0 Introduction to the Linguistic Study of French.** Introduction to the linguistic analysis of language (structuralist approach). Study of spoken variety of Canadian French and comparison with standard French. Students wishing to pursue

further study in French language and linguistics must enrol first in this introductory course. Three class hours, one individual lab hour.

**AS/FR 3100 6.0 French Morphosyntax.** Study of the major linguistic structures of French and Canadian French. Coverage of phonology, morphology, syntax and semantics, differences between spoken and written French.

**AS/FR 3121 6.0 Translation and Contrastive Linguistics.** Introduction to the theoretical and practical aspects of translation through the perspective of contrastive linguistics. The students are introduced to linguistic theories of translation while being given an opportunity to familiarize themselves with the process of translation.

**AS/FR 3130 6.0 French Semantics and Lexicology.** Study of French vocabulary, its structure and functions. Analysis of words and their frequencies, organisation by semantic fields. Study of dictionaries, polysemy, synonymy, homonymy, onomatopoeia, derivation and composition. Study of lexical meaning in discourse.

*Degree credit exclusion: AS/FR 4130 6.0 (prior to 1994-1995).*

**AS/FR 3140 6.0 French Phonetics and Oral Performance.** Theory and practice of French speech-habits. Elements of French phonology and French prosody; intensive pronunciation practice as well as study of stylistic levels and regional variants; study of pronunciation errors.

*Note: Language lab may be required. Consult the departmental supplemental calendar.*

**AS/FR 4100 6.0 French Sociolinguistics\*.** Introduction to the theoretical and empirical aspects of the description of variation in French usage. Focus on language norm, the registers of French, the regional dialects of French, the social class dialects of French and the phenomenon of linguistic change.

**AS/FR 4110 6.0 Sociolinguistic History of French\*.** Evolution of the French language from Vulgar Latin to the present day, covering phonology, morphology and syntax. Attention is paid to external and sociolinguistic factors governing the speed and direction of language change. Emphasis is placed on the usefulness of linguistic history as a means of better understanding the dominant patterns and characteristic features of contemporary French.

**AS/FR 4120 6.0 Linguistics Applied to the Teaching of French\*.** Introduction to major current linguistic theories and their potential contribution to the teaching of French; survey of various language learning theories and their application to the teaching of French. Principles of development of language materials based on linguistic findings.

*Prerequisite: AS/FR 2100 6.0 and one of AS/FR 3100 6.0, AS/FR 3130 6.0, AS/FR 3140 6.0.*

**AS/FR 4121 6.0 Ethnolinguistics and Francophone Amerindianity\*.** Study of the ethnohistory of culture and language of the Amerindian nations within Quebec. Focus is on

the relationship between language, culture and society as it applies to Quebec Amerindians in the global Canadian context.

*Prerequisite:* AS/FR 2100 6.0 and AS/FR 3080 6.0.

**AS/FR 4141 6.0 Enunciative Linguistics\*.** Approaches of Anglo-Saxon pragmatics and of French enunciative linguistics. Chief problems tackled including: speech acts, deixes, modalities and the notional domain.

**AS/FR 4150 6.0 Introduction to Canadian French\*.** Empirical study of Canadian French in its historical, sociocultural and geopolitical context with emphasis on its vernacular variety. Listening comprehension and analysis of texts, audio and video tapes. Emphasis on phonological rule, morphosyntactic change, register and norms, and functions of language.

*Prerequisites:* AS/FR 2100 6.0 and one 3000-level course in French linguistics.

*Degree credit exclusion:* AS/FR 3150 6.0 (prior to 1994-1995).

**AS/FR 4181 6.0 French-Based Creoles\*.** Study of French-based creoles with focus on origins and genesis of French-based creoles; the theories of creolization; French and Creole in countries that were once part of the French Colonial Empire.

*Prerequisites:* AS/FR 2100 6.0 and one 3000-level course in French linguistics.

#### 4000-Level Specialty Courses

*Note:* One or more of the following 4000-level specialty courses may be offered. Please consult the departmental supplemental calendar.

*Note:* All 4000-level specialty courses require AS/FR 2100 6.0 as a prerequisite. For additional prerequisites, please see below.

*Note:* For course descriptions, please consult the departmental supplemental calendar.

**AS/FR 4145 3.0 Rhetoric and Semiotics.**

*Prerequisites:* AS/FR 2100 6.0 and AS/FR 3080 6.0.

**AS/FR 4170 3.0 Structural Phonology.**

*Prerequisites:* AS/FR 2100 6.0 and AS/FR 3140 6.0.

**AS/FR 4175 3.0 Non-linear Generative Phonology.**

*Prerequisites:* AS/FR 2100 6.0 and AS/FR 3140 6.0 and AS/FR 4170 3.0.

**AS/FR 4190 6.0 Old French.**

*Prerequisites:* AS/FR 2100 6.0 and at least six credits at the 3000-level in French linguistics.

**AS/FR 4200 3.0 Language Typology.**

*Prerequisites:* AS/FR 2100 6.0 and AS/FR 3100 6.0.

**AS/FR 4205 3.0 Comparative Phonetics of French and Romance Languages.**

*Prerequisites:* AS/FR 2100 6.0 and AS/FR 3140 6.0.

**AS/FR 4210 6.0 Language Philosophy (French Domain).**

*Prerequisite:* AS/FR 2100 6.0.

**AS/FR 4220 3.0/4220 6.0 Special Topics in Linguistics Sequence.**

*Prerequisite:* AS/FR 2100 6.0.

**AS/FR 4230 3.0 Spoken French: Corpus and Descriptive Methods.**

*Prerequisite:* AS/FR 2100 6.0.

### III. French Literature Courses

(All instruction, discussion, written assignments and examinations in these courses will be in French.)

*Note:* The courses identified with an asterisk (\*) are offered alternate years. Check the departmental calendar for yearly offerings. All 3000- and 4000-level Literature courses require AS/FR 2200 6.0 as a prerequisite.

**AS/FR 2200 6.0 Approaches to French Literature: An Introduction.** A course in literary methodology in which the student learns analytical and expository techniques appropriate for examining the quality and context of works from various genres and periods of French literature. Students wishing to pursue further study in French literature must enrol first in this introductory course.

**AS/FR 3360 6.0 The Literature of French Canada.** This course concentrates on the poetry, novel and theatre of French Canada. Representative works in all genres are studied as literary creation and as reflections of a society in the process of defining itself.

**AS/FR 3370 6.0, Women Writers from the Middle Ages to Now.** This course proposes a wide study of French feminine literature through the ages.

**AS/FR 3380 6.0 A Survey of Literature in French\*.** The course concentrates on works representative of the most significant currents in French writing, giving students a panorama of the historical development of French letters.

**AS/FR 4310 6.0 The French Renaissance\*.** A study of the literature of the Renaissance, from the wit of Marot to the wisdom of Montaigne. Attention is paid to the intellectual and cultural life of the period as it informs the literature.

*Degree credit exclusion:* AS/FR 3310 6.0 (prior to 1994-1995).

**AS/FR 4320 6.0 French Literature of the 17th Century: from Henri IV to Louis XIV\*.** The major writers of the grand siècle, Descartes, Corneille, La Fontaine, Molière, Pascal, Mme de Lafayette, Boileau and Racine, seen against their political, social, material and artistic background. Poems and/or short prose selections by other writers are included.

**AS/FR 4330 6.0 France in the Age of Enlightenment: Passions, Reason and Derision\*.** A study of the major literary and philosophical writings from Bayle-Fontenelle to the last years of the ancien régime.

**AS/FR 4340 6.0 Romanticism, Realism and 19th-Century French Literature\*.** A study of the major literary movements and parallel trends in the other arts in the century following the French Revolution, showing how closely they are connected to the unsettled political and social climate of the age which saw the emergence of a large reading public.

*Degree credit exclusion:* AS/FR 3340 6.0 (prior to 1994-1995).

**AS/FR 4350 6.0 The Modern Period and 20th-Century French Literature\*.** A study of selected works of prose, poetry and theatre, representative of important aesthetic, socio-historical and philosophical developments of this century (e.g. surrealism, existentialism, structuralism, feminism).

*Degree credit exclusion:* AS/FR 3350 6.0 (prior to 1994-1995).

**AS/FR 4360 6.0 Special Topics: Literature and the Arts\*.** Courses given under this general rubric, Literature and the Arts, explore the relationship of French literature to the arts. One special topic will be chosen per year. Students should consult the department's supplemental calendar for a detailed description of the topic being offered.

**AS/FR 4370 6.0 Francophone Literature\*.** A study of works written in French by artists mainly from Africa and the Caribbean, emphasizing the evolving intersection in this literature of both local and global socio-political contexts and aesthetic forms.

**AS/FR 4380 3.0/4380 6.0 Special Topics in French Literature and its Context.** One or two topics are offered per year, for example, studies in author, genre, theme or movement. Students should consult the department's supplemental calendar for a detailed description of the topic.

**AS/FR 4410 6.0 Methodological Approaches and Literary Criticism.** This course is an introduction to the main methodological approaches used in modern criticism to describe a literary text: structuralism (Barthes, Greimas), deconstructionism (Derrida, DeMan), phenomenology (Poulet, Bachelard), psychocriticism (Lacan, Mauron) and sociocriticism (Lukacs, Duchet).

**AS/FR 4900 3.0/4900 6.0 Individualized Study.** The content of this course is determined on an individual basis through consultation between student and professor and are subject to departmental approval. The project must have thematic unity or involve intensive study of one particular area of interest. In order to be eligible for an Independent Reading course, a student must have a 7.0 grade point average in French courses taken during the previous academic

session. No student may take more than one (1) Independent Reading course with the same member of the department.

*Note: Consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

## Geography – Arts, Pure and Applied Science

### Department Office:

N430 Ross, 416-736-5107

### Chair of the Department:

D.B. Freeman

### Professors:

W.C. Found, D.B. Freeman,  
B. Greer-Wooten, C. Heidenreich, A.R. Hill,  
B.H. Massam, R.A. Murdie, G.B. Norcliffe,  
J.P. Radford, P. Simpson-Housley

### Professors Emeriti:

J.T. Davis, J.R. Gibson, B.V. Gutsell,  
M.C. Kellman, J.U. Marshall, H.R. Merrens,  
J. Warkentin, R.I. Wolfe

### Associate Professors:

R.L. Bello, Q. Cheng, L. Lo, V.A. Preston,  
A. Robert, G.E. Walker, K.L. Young

### Associate Professors Emeriti:

A.M. Blair, I.A. Brookes

### Assistant Professors:

Y. Ban, P. Kelly, K. McLeod, P. Wood

Geography is concerned with the spatial variations of human and physical phenomena, the processes which produce these variations, and the interrelationships between people and their environments. Fields that have always been of importance to geographers are well represented in the department. Regional courses dealing with Canada, Africa and the Caribbean explore the past and present geography of these areas. Likewise there are clusters of courses relating to urban, economic, cultural, historical and physical geography. Combined with these offerings are specialties such as those dealing with water resources and resource management, urban and regional planning, ecological studies, landforms, arctic climates and the social geography of cities and rural areas.

For specific requirements of programs offered by this department, see the Faculty of Arts "Programs of Study" section of this Calendar for BA and BA Honours programs and Science section V for BSc and BSc Honours programs.

*Note: A Geography supplementary calendar is available each spring in the department's Teaching Resources Centre, S405 Ross.*

## Courses in Geography

Not all courses will necessarily be offered in any given year; consult the department's supplementary calendar for details of courses to be offered.

**Prerequisites.** The specific course prerequisites listed for Geography courses in this Calendar are intended to ensure that students do not unwittingly enrol in courses for which they have inadequate preparation. In

some cases, students lacking the stated course prerequisite(s) may be permitted to enrol in the course by written permission of the course director.

### 1000-Level Courses

**AS/GEOG 1000 6.0 Introduction to World Geography.** This course explores geographic approaches to disparities of cultural, economic, political and environmental development in major world regions comprising developed capitalist and socialist countries and underdeveloped nations.

**AS/SC/GEOG 1390 3.0/1390 6.0 Special Topics.** In any given year an additional number of courses may be offered. Information concerning these is available at the department office. Only topics in physical geography are eligible for Science (SC) credit.

*Prerequisite: Permission of the course director.*

**AS/SC/GEOG 1400 6.0 Physical Geography.** A study of the physical-biotic environment through a consideration of the character and processes of its components — atmosphere, hydrosphere, biosphere and lithosphere — and of the spatial distributions which reflect interaction among these components. Two lecture hours per week, three laboratory hours normally every second week. Two terms.

*Equivalent and degree credit exclusion: AK/GEOG 2510 6.0.*

**AS/GEOG 1410 6.0 Human Geography.** An introduction to the study of human geography which puts emphasis on geographical aspects of population, culture, society and economy. Detailed examples are studied in tutorials.

*Equivalent and degree credit exclusion: AK/GEOG 2500 6.0.*

### 2000-Level Courses

**AS/GEOG 2020 6.0 Geographical Transformation of the Caribbean Islands.** This course analyses the geographic status of the Caribbean islands. It examines how interactions between natural environmental factors and human activities since the beginnings of settlement account for the current appearance, character, problems and prospects for individual islands and for the region.

*Degree credit exclusions: AS/GEOG 3020 6.0, AS/GEOG 3020 3.0.*

**AS/GEOG 2050 6.0 Political Geography.** This course deals with the reciprocal links between geography and political processes at the global, national and local levels. A secondary focus is on particular state policies and how they influence, and are influenced by, geographical patterns and processes.

*Prerequisite: AS/GEOG 1410 6.0 or AK/GEOG 2500 6.0 or written permission of the course director.*

*Equivalents and degree credit exclusions: AS/GEOG 3050 6.0, AK/GEOG 3450 6.0.*

**AS/GEOG 2060 3.0 Historical Geography.** An exploration of the content of and approaches to historical geography, with a focus on major historical shifts in the geography and geographic knowledge of human beings, such as imperialism, mass migration and urbanization.

*Degree credit exclusion: AS/GEOG 2060 6.0.*

**AS/GEOG 2065 3.0 Cultural Geography.** This course examines the evolution of cultural geography and its interaction with cultural theory, sociology, politics and economics, focusing on such issues as the relationship between identity, space and place.

*Degree credit exclusions: AS/GEOG 2060 6.0, AK/GEOG 3410 6.0.*

**AS/GEOG 2100 6.0 Economic Geography.** This course provides a broad overview of how economic geographers understand both spatial patterns of economic activities and the ways in which these patterns create and shape the places in which we (or others) live and work.

*Prerequisite: AS/GEOG 1410 6.0 or AS/GEOG 1000 6.0 or AK/GEOG 2500 6.0 or an introductory course in economics or written permission of the course director.*

**AS/SC/GEOG 2130 3.0 Fundamentals of Map Design and Interpretation.** This course introduces the basic principles and conventions for compiling, designing, drafting and interpreting maps and other visual representations of geographic data. Two lecture hours, one scheduled laboratory hour. One term.

*Prerequisite: One of AS/SC/GEOG 1400 6.0, AS/GEOG 1410 6.0, AK/GEOG 2500 6.0, AK/GEOG 2510 6.0 or written permission of the course director.*

*Degree credit exclusion: SC/GEOG 2130 2.0.*

**AS/GEOG 2300 6.0 Social Geography.** A study of social processes underlying spatial patterns, relationships and interactions within and among social groups. The course examines urban and rural social structures within their spatial settings, focusing on social and environmental problems and solutions.

*Prerequisite: AS/GEOG 1000 6.0 or AS/GEOG 1410 6.0 or AK/GEOG 2500 6.0 or written permission of the course director.*

**AS/SC/GEOG 2390 3.0/2390 6.0 Special Topics.** In any given year an additional number of courses may be offered. Information concerning these is available at the department office. Only topics in physical geography are eligible for Science (SC) credit.

*Prerequisite: Permission of the course director.*

**AS/SC/GEOG 2400 6.0 The Hydrosphere.** This course examines the physical processes and the environmental factors that govern the movement of water and energy in lakes, rivers, oceans and the soil-plant-atmosphere continuum. Boundary-layer climates and mechanisms of water movement and storage are emphasized. Two lecture hours per week, 16 three-hour laboratories over two terms.

*Prerequisite:* AS/SC/GEOG 1400 6.0 or AK/GEOG 2510 6.0 or written permission of the course director.

**AS/SC/GEOG 2420 3.0 Introductory Statistical Analysis in Geography.** This introductory course aims to provide a working knowledge of several statistical techniques which are widely used in many branches of Geography. Some attention is also given to broader questions concerning the nature of the scientific method. Two lecture hours per week, nine two-hour laboratory sessions. One term.

*Prerequisites:* 24 credits successfully completed or written permission of the course director. This course is intended primarily for students majoring in Geography and is normally taken during the second year of study.

*Degree credit exclusions:* SC/BIOL 2060 3.0, AK/BIOL 3080 6.0, AK/BIOL 3080 3.0, SC/BIOL 3090 3.0, AK/BIOL 3090 3.0, AS/ECON 2500 3.0, ES/ENVS 2010 6.0, ES/ENVS 2010 3.0, AS/SC/KINE 2050 3.0, AS/SC/KINE 3150 3.0, AS/SC/AK/MATH 1131 3.0, AS/SC/MATH 1132 3.0, AK/MATH 2430 6.0, AS/SC/AK/MATH 2560 3.0, AS/SC/AK/MATH 2570 3.0, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0, AK/PSYC 2510 3.0, AS/SOCI 3030 6.0.

**AS/SC/GEOG 2500 3.0 Introduction to Vegetation and Soils.** An introduction to the structure and functioning of vegetation and soil systems, emphasizing local patterns and processes, methods of description and sampling, dynamic processes, response to environmental change and human disturbance. Field work is emphasized in laboratories. Two lecture hours and two laboratory hours per week, a one-day field trip. One term.

*Prerequisite:* AS/SC/GEOG 1400 6.0 or AK/GEOG 2510 6.0 or ES/ENVS 2500 6.0 or written permission of the course director.

**AS/SC/GEOG 2700 3.0 Introduction to Geomorphology.** An introduction to the principles of landform science, examining history of thought, modes of investigation, and the nature of geomorphic systems operating under the influence of internal (tectonic) and external processes. Two lecture hours per week, two laboratory/tutorial hours in alternate weeks. One term.

*Prerequisite:* One of AS/SC/GEOG 1400 6.0, AK/GEOG 2510 6.0, SC/EATS 1010 6.0, SC/EATS 1010 3.0.

### 3000-Level Courses

**Prerequisites.** Unless otherwise indicated, 3000-level Geography courses are open only to students who have successfully completed at least 24 credits, including any specific course prerequisites noted in the following course outlines.

**AS/GEOG 3010 6.0 Geography of Canada.** A study of basic physical and human geographical patterns in Canada, stressing the processes which produced the latter, and selected characteristics of major Canadian regions. Tutorials require intensive reading in selected sources.

*Prerequisite:* One of AS/SC/GEOG 1400 6.0, AK/GEOG 2510 6.0, AS/GEOG 1410 6.0, AK/GEOG 2500 6.0 or written permission of the course director.

*Equivalent and degree credit exclusion:* AK/GEOG 3540 6.0.

**AS/GEOG 3040 6.0 Geography of Europe.** An introduction to both the historical and present-day geography of Europe (excluding the former Soviet Union). The course combines a thematic survey of the continent as a whole with detailed integrative studies of selected small areas.

*Prerequisites:* At least 54 credits successfully completed, or written permission of the instructor.

**AS/GEOG 3060 6.0 The Historical Geography of Canada to 1821.** This course focuses on the changing human geography of Canada from pre-European times to 1821. Dominant themes include European exploration, exploitation and settlement; Native cultures and economies; and European-Native relations.

*Cross-listed to:* AS/HIST 3515 6.0.

*Prerequisites:* 24 credits successfully completed.

*Degree credit exclusion:* AS/HIST 3515 6.0.

**AS/GEOG 3080 3.0 Reading Landscapes Through Time.** Cultural landscapes change over time. This can result from changes in legal tenure, cultural adaptation, changes in the economic base or historical events. This course considers landscapes in various countries in chronological sequence.

*Cross-listed to:* AS/HIST 3890 3.0.

*Prerequisites:* 24 credits successfully completed. Non-Geography majors welcome.

*Degree credit exclusions:* AS/GEOG 3080 6.0, AS/HIST 3890 6.0, AS/HIST 3890 3.0.

**AS/GEOG 3090 3.0 The African Environment.** The African physical environment is examined in order to understand problems of human occupancy and development of this tropical continent. Regional case studies illustrate ways in which African cultures alter their environments to improve their living standards.

*Prerequisites:* 24 credits successfully completed, including AS/GEOG 1000 6.0 or AS/GEOG 1410 6.0 or AK/GEOG 2500 6.0, or written permission of the course director.

*Degree credit exclusions:* AS/GEOG 3390Z 3.0, AK/GEOG 3550L 6.0.

**AS/GEOG 3110 6.0 Rural Geography.** A course dealing with the fundamental background and research procedures used in rural geography. The focus is on such topics as agriculture, land-use classification, social processes, settlement and planning. Canadian examples are emphasized.

*Prerequisites:* 24 credits successfully completed, or written permission of the course director.

*Equivalents and degree credit exclusions:* AK/GEOG 3440 6.0, AS/SOSC 3750 6.0.

**AS/GEOG 3120 6.0 Urban Geography.** An introductory course in which past and present urban phenomena are examined. Attention is focused on the analysis of regional urban networks and the internal spatial structure of the city.

*Prerequisites:* 54 credits successfully completed, including one of AS/GEOG 1410 6.0, AK/GEOG 2500 6.0, AS/SOSC 2710 9.0, AS/SOSC 2710 6.0, or written permission of the course director.

*Equivalent and degree credit exclusion:* AK/GEOG 3430 6.0.

**AS/GEOG 3130 3.0 The Global Economy.** This course examines the evolution of the world economy as well as the major institutions that have supported it, and interprets the new geography of investment, production and consumption that accompanies it.

*Prerequisites:* 24 credits successfully completed.

*Degree credit exclusion:* AS/GEOG 3390N 3.0.

**AS/GEOG 3140 3.0 Retailing, Shopping, Society and Space.** (formerly AS/GEOG 3390R 3.0 — before 1999-2000) This course provides an overview of consumer shopping behaviour, the structure and process of retail location, and various social and economic issues associated with the contemporary retail economy. The geographical perspective is emphasized.

*Prerequisites:* 54 credits successfully completed, including AS/GEOG 1000 6.0 or AS/GEOG 1410 6.0 or AK/GEOG 2500 6.0, or written permission of the course director.

*Degree credit exclusions:* AS/GEOG 3390R 3.0, AK/GEOG 3100A 3.0.

**AS/GEOG 3150 3.0 The Rural-Urban Fringe.** This course focuses on the relations between land-use changes, the economic dynamics which generate those changes, and the social composition of the countryside which emerges. The interpretive emphasis of the course is on the impacts of advanced capitalism on its social and geographic settings.

*Degree credit exclusion:* AS/SOSC 3740D 3.0.

**AS/SC/GEOG 3180 3.0 Introduction to Geographic Information Systems (GIS).** An introduction to the application of GIS to geographical/environmental problems. A broad conceptual overview of GIS approaches and their strengths and limitations. Students gain hands-on experience in the use of raster-based GIS technology with particular reference to resource management and planning topics. One and one-half lecture hours, one and one-half laboratory hours. One term.

*Cross-listed to:* ES/ENVS 3520 3.0.

*Prerequisite:* AS/SC/GEOG 2420 3.0 or written permission of the course director.

*Equivalents and degree credit exclusions:* AK/GEOG 3600 3.0, ES/ENVS 3520 3.0.



**AS/SC/GEOG 3200 3.0 Terrestrial Ecosystems.** An examination of the structure and function of vegetation and soil systems. The course focuses on such topics as the adjustment of ecosystems to human modification and the role of biogeography in conservation and resource management. Three lecture hours. One term.

*Prerequisites:* 54 credits successfully completed, including one of AS/SC/GEOG 1400 6.0, AK/GEOG 2510 6.0, SC/BIOL 2050 4.0, SC/BIOL 2050 3.0, or written permission of the course director.

**AS/GEOG 3250 3.0 Environmental Perception and Natural Disasters.** This course assesses the way people perceive their environment. Initially the course considers the theory of environmental perception. Considerable emphasis is placed on appraisal of natural and technological hazards and cultural perception.

*Prerequisites:* 24 credits successfully completed, or written permission of the course director.

*Degree credit exclusion:* AS/GEOG 3390E 3.0.

**AS/SC/GEOG 3290 3.0/3290 6.0 Directed Reading.** This course may be used for individualized study, in which case the student requires permission from a faculty member who agrees to supervise the program of directed reading and from the Chair of the department.

*Note:* See the Faculty of Arts section of this Calendar for regulations on "Independent Reading Courses". Only topics in physical geography are eligible for Science (SC) credit.

**AS/GEOG 3340 6.0 Resource Analysis and Management.** This course is concerned with the use of the natural resources of the Earth and with the economic, institutional, physical and biological factors that affect, condition and control the use of these resources.

*Prerequisites:* 24 credits successfully completed, including one of AS/SC/GEOG 1400 6.0, AK/GEOG 2510 6.0, AS/GEOG 1410 6.0, AK/GEOG 2500 6.0; one of AS/GEOG 2100 6.0, AK/GEOG 3420 6.0; or written permission of the course director.

**AS/SC/GEOG 3390 3.0/3390 6.0 Special Topics.** In any given year an additional number of courses may be offered. Information concerning these is available at the department office. Only topics in physical geography are eligible for Science (SC) credit.

*Prerequisite:* Permission of the course director.

**AS/SC/GEOG 3400 3.0 Glacial Geomorphology.** This course examines the distribution, mass balance, form and flow of glaciers as a basis for an analysis of landforms originating by glacial erosion and deposition. Canadian regional examples are used extensively, including a local field study. Two lecture hours and two laboratory/tutorial hours per week, a weekend field excursion. One term.

*Prerequisite:* AS/SC/GEOG 1400 6.0 or AK/GEOG 2510 6.0.

*Equivalent and degree credit exclusion:* AK/GEOG 3310 3.0.

*Degree credit exclusion:* AK/GEOG 3310 6.0.

**AS/SC/GEOG 3420 3.0 Research Design and Field Studies.** This course begins with lectures on field research methodology. The second phase concentrates on defining a field problem, leading to data collection in the field. The final part of the course deals with data analysis and reviews methodological implications. Two two-hour periods per week (including lectures, seminars and workshops), a three-day field trip. One term.

*Prerequisites:* Students must be registered as Honours majors in Geography and must have successfully completed 54 credits, including AS/SC/GEOG 1400 6.0 or AK/GEOG 2510 6.0; AS/GEOG 1410 6.0 or AK/GEOG 2500 6.0; AS/SC/GEOG 2420 3.0 or a degree credit exclusion approved by the Geography Department.

*Degree credit exclusion:* AS/SC/GEOG 3390B 3.0.

**AS/SC/GEOG 3421 3.0 Intermediate Statistical Methods in Geography.** This course examines the application of methods of geographical analysis to empirical data sets representing geographical and ecological phenomena. Bivariate linear regression and multiple regression and time/spatial series are emphasized. Two lecture hours, two laboratory hours. One term.

*Prerequisite:* AS/SC/GEOG 2420 3.0 or equivalent.

*Degree credit exclusions:* AS/SC/MATH 3033 3.0, AS/SC/AK/MATH 3034 3.0, AS/SC/AK/MATH 3230 3.0, AS/SC/AK/MATH 3330 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2022 3.0, AS/SOCI 3030 6.0.

**AS/GEOG 3440 3.0 Environmental Remote Sensing.** This course represents an introduction to the methods in which remote sensing data are collected, processed and analyzed. An emphasis is placed on environmental applications. The synergy between the technologies of remote sensing and geographic information systems (GIS) is also stressed. Two lecture hours, two laboratory hours. One term.

*Cross-listed to:* ES/ENVS 3521 3.0.

*Prerequisite(s):* AS/SC/GEOG 2420 3.0; or ES/ENVS 2010 6.0 and one 2000-level Environmental Studies Theme Foundation course; or written permission of the course director.

*Degree credit exclusions:* AS/SC/GEOG 4390T 3.0, ES/ENVS 3521 3.0.

**AS/SC/GEOG 3500 3.0 Plant Geography.** An analysis of the geography of higher plants, emphasizing processes that operate at the species population level, the origin and diversity of higher plant life, geographic patterns of diversity and floras, and dynamics

of species populations at local and continental scales. Two lecture hours, two laboratory hours. One term.

*Cross-listed to:* SC/BIOL 3500 3.0.

*Prerequisite:* AS/SC/GEOG 2500 3.0 or SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0 or written permission of the course director.

*Degree credit exclusion:* SC/BIOL 3500 3.0.

**AS/SC/GEOG 3600 3.0 Process Geomorphology.** Reviews the operation of Earth surface processes of weathering, erosion and deposition and the consequent creation of landforms under fluvial, coastal, glacial, cryonival and aeolian regimes. Two lecture hours per week, four two-hour laboratory sessions. One term.

*Prerequisite:* One of AS/SC/GEOG 1400 6.0, AK/GEOG 2510 6.0, SC/EATS 1010 6.0, SC/EATS 1010 3.0.

**AS/GEOG 3770 3.0 Housing Policy.** The course studies Canadian housing policy using the approaches of economics, political science and public administration. The course examines models of housing markets, the effects of housing policies, the politics and process of policy formation, and procedures for policy evaluation.

*Cross-listed to:* AS/SOSC 3770 3.0.

*Prerequisites:* 54 credits successfully completed, including AS/GEOG 1410 6.0 or AK/GEOG 2500 6.0 or AS/SOSC 2710 9.0 or AS/SOSC 2710 6.0, or written permission of the course director.

*Degree credit exclusion:* AS/SOSC 3770 3.0.

## 4000-Level Courses

**Prerequisites.** Unless otherwise indicated, 4000-level Geography courses are open only to students who have successfully completed at least 54 credits, including any specific course prerequisites noted in the following course outlines.

**AS/SC/GEOG 4000 6.0 Honours Thesis.** An independent piece of research done under the supervision of a faculty adviser. The thesis must be submitted before the end of classes in the Winter Term; an exact date is established each year. There is an oral examination on the Honours Thesis. Only theses topics in physical geography are eligible for Science (SC) credit. One lecture hour per week at the beginning of the course. Two terms.

*Prerequisites:* 84 credits successfully completed, signed approval of selected faculty adviser.

**AS/GEOG 4040 6.0 Urban Historical Geography.** A course which examines the historical geography of cities, particularly those of 19th-century North America. The major focus of attention is the role of certain economic and cultural factors in the development of spatial arrangements within and among cities.

*Prerequisites:* 54 credits successfully completed, including one of AS/GEOG 1410 6.0, AK/GEOG 2500 6.0, AS/HIST 2510 6.0, AS/HIST 2600 6.0, AS/HIST 3440 6.0, AS/HIST 3621 6.0; or written permission of the course director.



**AS/GEOG 4050 3.0 The Exploration and Mapping of Canada to 1820.** Exploration and mapping are inseparable; the former is the purposeful seeking, and the latter is the proof, of geographical discovery. The course traces the gradual exploration of Canada and its graphical portrayal from John Cabot (1497) until the early 19th century, when the country's outline became largely known.

*Cross-listed to: AS/HIST 4515 3.0.*

*Degree credit exclusion: AS/HIST 4515 3.0.*

**AS/GEOG 4060 3.0 Geography of Gender: Historical Perspectives on Women's Spaces and Places in North America.** This course explores the changing geographies of women in Canada and the United States over the past three centuries, focusing on the historical and spatial construction of gender.

*Cross-listed to: AS/HIST 4050E 3.0.*

*Degree credit exclusions: AS/GEOG 4390K 3.0, AS/HIST 4050E 3.0.*

**AS/GEOG 4090 3.0 Urban Identities: Historical Perspectives on Race, Ethnicity, Gender and Class in Canadian and American Cities.** This course considers the historical and spatial construction of racial, ethnic, gender and class identities in the broader context of urban development in Canada and the United States in the 19th and 20th centuries.

*Cross-listed to: AS/HIST 4050F 3.0.*

*Prerequisite: AS/GEOG 3120 6.0 or AS/GEOG 4040 6.0 or AS/GEOG 4170 3.0 or AS/HIST 1000A 6.0 or AS/SOSC 2710 9.0 or AS/SOSC 3760 6.0 or AS/SOSC 3790A 3.0 or AS/SOCI 3830 6.0 or AS/SOCI 4055 6.0 or AS/SOCI 4120 6.0 or AK/AS/GL/WMST 3505 3.0 or written permission of the course director.*

*Degree credit exclusion: AS/HIST 4050F 3.0.*

**AS/GEOG 4110 3.0 Regional Urban Systems.**

An evaluation of theories and techniques used in studies of the structure and growth of regional and national urban systems. Illustrations are drawn mainly from Western Europe and North America. The course stresses concepts and methods rather than factual information.

*Prerequisites: 54 credits successfully completed; AS/SC/GEOG 2420 3.0 or a degree credit exclusion approved by the Geography Department; AS/GEOG 3120 6.0 or AK/GEOG 3430 6.0.*

*Degree credit exclusions: AK/GEOG 4180 6.0, AK/URST 4180 6.0.*

**AS/GEOG 4130 3.0 The History and Theory of Geography.** An examination of the evolution of geography as a distinctive field of enquiry is followed by an analysis of selected recent controversies. Modern geographic thought is illuminated by reference to contemporary trends in the philosophy of knowledge.

*Prerequisite: At least 12 credits in Geography at the 3000 level.*

*Degree credit exclusion: AK/GEOG 4100 6.0.*

**AS/GEOG 4160 3.0 Risk Assessment in Resource Management.** Theories and concepts of "risk" are discussed and evaluated critically with respect to public policy for the resources sector. The analytical framework employed distinguishes between risk estimation, risk evaluation, and risk management and communication activities. Resource management issues are analyzed with a focus on energy policy in Canada, in the context of environment-energy interactions.

*Cross-listed to: ES/ENVS 4530 3.0.*

*Prerequisites: 54 credits successfully completed including AS/GEOG 3340 6.0, or fourth-year Honours standing in the Faculty of Environmental Studies, or written permission of the course director.*

*Degree credit exclusion: ES/ENVS 4530 3.0.*

**AS/GEOG 4170 3.0 Geographic Perspectives on Immigration, Ethnicity and Race in Modern Cities.** This course first discusses a number of conceptual issues concerning the residential segregation of ethnic and racial groups. The course then considers several case examples that exemplify the varied experiences of ethnic and racial groups in modern cities.

*Prerequisites: 84 credits successfully completed, including AS/GEOG 1000 6.0 or AS/GEOG 1410 6.0 or AK/GEOG 2500 6.0 or written permission of the course director. Third-year Honours students with 78 credits completed who are also taking summer courses may enrol.*

**AS/GEOG 4180 3.0/SC/GEOG 4180 4.0 Laboratory Analysis of Ecological Materials.**

This course introduces students to a comprehensive range of laboratory techniques for the analysis of plant, soil and water samples. Laboratory sessions and projects provide students with experience in analytical procedures and the operation of major items of laboratory equipment. Four scheduled lecture/laboratory hours, three additional laboratory hours. One term.

*Prerequisite(s): six credits in physical geography at the 3000 level; or SC/EATS 1010 3.0; or SC/EATS 1010 6.0; or SC/BIOL 2010 4.0, SC/BIOL 2030 5.0(4.0) and SC/BIOL 2050 4.0(3.0).*

**AS/GEOG 4190 3.0 Regional Planning.** An examination of the "regional problem". Alternative interpretations of differential regional growth provide a basis for evaluating various regional planning policies.

*Cross-listed to: AS/SOSC 4560 3.0.*

*Prerequisite(s): One of AS/GEOG 2100 6.0, AK/GEOG 3420 6.0, AS/ECON 1000 3.0/1010 3.0.*

*Degree credit exclusion: AS/SOSC 4560 3.0.*

**AS/SC/GEOG 4200 3.0 Water Quality and Stream Ecosystems.**

The course focuses on selected aspects of river water quality, including hillslope hydrology and the transport of pollutants, the impacts of human activities on water chemistry, nutrient transformations within stream ecosystems, and the effects of

water quality on stream biological communities. Two lecture hours, one laboratory hour. One term.

*Prerequisites: 54 credits successfully completed including one of AS/SC/GEOG 1400 6.0, AK/GEOG 2510 6.0, SC/BIOL 2050 4.0, SC/BIOL 2050 3.0; and at least six credits in Physical Geography or Biology at the 3000 or 4000 level; or written permission of the course director.*

**AS/SC/GEOG 4205 3.0 Climatology of High Latitudes.**

A study of the processes of energy and moisture exchanges in polar regions with emphasis on the Canadian North. Topics include atmospheric and oceanic transport of energy, surface microclimate and the sensitivity of high latitude environments to climate change. Normally offered in alternate years. Three lecture hours. One term.

*Prerequisites: 54 credits successfully completed, including AS/SC/GEOG 2400 6.0 or written permission of the course director.*

*Degree credit exclusion: AS/SC/GEOG 3210 3.0.*

**AS/SC/GEOG 4210 3.0 Hydrometeorology.**

A study of the relationship between the atmosphere and the hydrosphere with the emphasis on the process of evaporation. The course includes an in-depth review of evaporation models and the instrumentation necessary for data acquisition. Normally offered in alternate years. Three lecture hours per week, one full-day laboratory session. One term.

*Prerequisite: AS/SC/GEOG 2400 6.0, or written permission of the course director.*

**AS/GEOG 4220 3.0 Geographies of Industry.**

This course draws on various theories to interpret contemporary trends in industrial production and location, and examines their linkages with social and economic change. Particular emphasis is put on concepts of social regulation.

*Prerequisites: 54 credits successfully completed, including one of AS/GEOG 2100 6.0, AS/GEOG 3120 6.0, AK/GEOG 3430 6.0, AS/ECON 1010 3.0, AS/ECON 3230 3.0, or written permission of the course director.*

**AS/GEOG 4240 3.0 The Planning of Urban Public Facilities.**

Theoretical and practical problems concerning the supply and distribution of public goods and services in urban areas.

*Prerequisites: 54 credits successfully completed, including AS/GEOG 1000 6.0 or AS/GEOG 1410 6.0 or AK/GEOG 2500 6.0 or AS/SOSC 2710 9.0 or AS/SOSC 2710 6.0 or written permission of the course director.*

**AS/GEOG 4250 3.0 Geography and Landscape in Secular and Religious Literature.**

The focus of the course is on descriptions of landscapes and other geographical phenomena in works of literature. Real, symbolic and imaginary vistas are included.

*Prerequisites: 54 credits successfully completed. AS/GEOG 3250 3.0 is recommended, but not required.*

**AS/GEOG 4260 3.0 Applied Transportation Geography.** This course focuses on urban transportation planning and policy analysis as an area of research. It discusses the theoretical principles governing movement and planning, and analytically examines approaches to policy problems.

*Prerequisites: 84 credits successfully completed, including one of AS/GEOG 2100 6.0, AK/GEOG 3420 6.0, AS/GEOG 3120 6.0, AK/GEOG 3430 6.0 or written permission of the course director.*

**AS/SC/GEOG 4280 3.0 Tropical Environments.** The tropics are studied as a unique environment and habitat posing special problems for development and occupancy. Topics include the history of environments, ecology of human activity, soils, nutrient conservation, biotic communities, pest problems, pastoralism and agriculture in the tropics. Two lecture hours, two seminar hours. One term.

*Prerequisites: 84 credits successfully completed, including AS/SC/GEOG 2500 3.0 or SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0 or written permission of the course director.*

**AS/SC/GEOG 4290 3.0/4290 6.0 Directed Reading.** This course may be used for individualized study, in which case the student requires permission from a faculty member who agrees to supervise the program of directed reading and from the Chair of the department.

*Note: See the Faculty of Arts section of this Calendar for Faculty of Arts regulations on "Independent Reading Courses". Only topics in physical geography are eligible for Science (SC) credit.*

**AS/GEOG 4300 3.0 Rural Social Geography.** The countryside is examined as a social geographic phenomenon with emphasis upon social partitioning by class, ethnicity and territory. Analysis of social relations is related to land uses and power, linking the countryside to advanced capitalism.

*Cross-listed to: AS/SOSC 4730 3.0.*

*Prerequisite: AS/GEOG 3110 6.0 or AK/GEOG 3440 6.0 or AS/SOSC 3750 6.0 or written permission of the course director.*

*Degree credit exclusion: AS/SOSC 4730 3.0.*

**AS/SC/GEOG 4310 3.0 Dynamics of Snow and Ice.** This course examines the formation, distribution, structure and degradation of snow, as well as lake, river and sea ice. Two lecture hours and two tutorial hours per week, one-day field experiments. One term.

*Prerequisite: AS/SC/GEOG 2400 6.0 or written permission of the course director.*

**AS/GEOG 4330 3.0 Spatial Choice Models: Theory and Application.** This course looks at how spatial choice is modelled at both aggregate and disaggregate levels. Formal

structure and theoretical rigour of gravity-type models and discrete choice models are discussed. Applications are drawn from a variety of interaction contexts.

*Prerequisites: AS/GEOG 2100 6.0 or AS/ECON 1000 3.0; AS/SC/GEOG 2420 3.0.*

**AS/SC/GEOG 4340 3.0 Geographic Information Systems.** Advanced course in Geographic Information Systems (GIS), oriented around raster structures. Computer graphics for mapping introduced and work undertaken on finely divided surfaces. GIS considers both practical and theoretical questions of interpretation. Macintosh computers and raster-based software used for hands-on focus. Two lecture hours, two laboratory hours. One term.

*Prerequisites: 54 credits successfully completed, including AS/SC/GEOG 3180 3.0 or AK/GEOG 3600 3.0 or written permission of the course director.*

*Equivalent and degree credit exclusion: AK/GEOG 4220 3.0.*

**AS/GEOG 4370 3.0 The Geography of Third World Development.** Problems and patterns of rural and urban development in Third World countries are examined from a geographical perspective. Theoretical and practical aspects are treated, based on case studies drawn mainly from Africa and the Pacific and Indian Ocean basins.

*Prerequisites: 54 credits successfully completed, including one of AS/GEOG 1000 6.0, AS/SC/GEOG 1400 6.0, AK/GEOG 2510 6.0, AS/GEOG 1410 6.0, AK/GEOG 2500 6.0 or written permission of the course director.*

**AS/GEOG 4380 3.0 Urban Social Policy.** A critical examination of the links between urban social problems and state policies. The course studies how policy makers, planners and geographers understand and deal with social problems in the contemporary city and evaluates selected planning policies.

*Prerequisites: 54 credits successfully completed. One of AS/GEOG 1000 6.0, AS/GEOG 1410 6.0, AK/GEOG 2500 6.0; at least 6 additional credits in human geography at the 2000 or 3000 level; or written permission of the course director.*

**AS/SC/GEOG 4390 3.0/4390 6.0 Special Topics.** In any given year an additional number of courses may be offered. Information concerning these is available at the department office. Only topics in physical geography are eligible for Science (SC) credit.

*Prerequisite: Permission of the course director.*

**AS/SC/GEOG 4400 3.0 Physical Hydrology and Water Resources.** An intermediate course in the physical principles of hydrological and water resource systems. Topics to be discussed include groundwater storage and flow, deterministic hydrological models and physical hydrological aspects of current water resource problems. Normally offered in alternate years. Two lecture hours, two laboratory hours. One term.

*Prerequisites: 54 credits successfully completed, including AS/SC/GEOG 2400 6.0 or written permission of the course director.*

**AS/GEOG 4420 3.0 Project Experience in Applied Geography.** This course enables Honours students to apply work experience in applied geography to their degree program. It provides students an opportunity to put their classroom learning into practice in a non-academic environment. The objective is to encourage students to put geographic skills to work in the addressing of "real world" problems.

*Prerequisites: Permission of the course director. Students must be registered in the Specialized Honours Applied Geography program and must have successfully completed 84 credits.*

*Prerequisite or corequisite: AS/SC/GEOG 3420 3.0.*

**AS/GEOG 4440 3.0 Remote Sensing and Image Processing for Geographical Analysis and Environmental Monitoring.** Sophisticated methods and techniques for collecting, processing and analyzing remote sensing data are examined. Special topics include image enhancement techniques (e.g. texture transforms), non-traditional image classification and data integration for incorporation of remote sensing data products into geographic information systems (GIS). One and one-half lecture hours, one and one-half laboratory hours. One term.

*Cross-listed to: ES/ENVS 4521 3.0.*

*Prerequisites: 54 credits successfully completed; AS/GEOG 3440 3.0 or ES/ENVS 3521 3.0 or SC/EATS 4220 3.0 or written permission of the course director.*

*Degree credit exclusions: AS/SC/GEOG 4390T 3.0, ES/ENVS 4521 3.0.*

**AS/SC/GEOG 4500 3.0 Northern Forest Environments.** An examination of the northern forested regions of Canada: Coastal, Subalpine, Montane, Columbian, Boreal, Great Lakes-St. Lawrence and Acadian Forests. Various aspects of each region are explored, including vegetation composition and development, environmental conditions and major disturbance regimes. Two lecture hours, two laboratory hours. One term.

*Prerequisites: 84 credits successfully completed, including AS/SC/GEOG 2420 3.0, and AS/SC/GEOG 2500 3.0 or SC/BIOL 2050 4.0 or SC/BIOL 2050 3.0, or permission of the course director.*

**AS/SC/GEOG 4600 3.0 Fluvial Geomorphology.** This course concentrates on processes of erosion, sediment transport and resultant depositional features in alluvial channels. Emphasis is placed on the hydraulics and mechanics of open channel flow, flow turbulence-sediment transport interactions, as well as river cross-sections and channel patterns. Two lecture hours, two seminar hours. One term.

*Prerequisites: 54 credits successfully completed, including AS/SC/GEOG 1400 6.0 or AK/GEOG 2510 6.0, or written permission of the course director.*

## German Studies – Arts

### Program Office:

S558 Ross, 416-736-5016

### Program Coordinator:

W. Ahrens, S558 Ross, 416-736-5016

### Program Advisers:

W. Ahrens, S520 Ross, 416-736-5016;  
H.G.Betz, 230 York Lanes, 416-736-5695,  
I.Steinisch, 2134 Vari Hall, 416-736-5223; M.  
Webber, 230 York Lanes, 416-736-5695

German Studies is an Honours Double Major Interdisciplinary BA program that can be pursued jointly with another discipline, such as Economics, Geography, German, History, Humanities, Philosophy, Political Science, or Sociology. As an interdisciplinary field of study, German Studies examines how, why and to what effect the culture of the German-speaking world has organized and expressed itself over the centuries. Thus German Studies considers and evaluates geographical, political, historical, sociological, philosophical, economic, linguistic, literary and artistic data. Although the primary focus is Germany, other German-speaking countries and Germany's relations with Europe and the world receive appropriate attention. Integral to German Studies is its intercultural perspective, which subjects to critical study the history and actuality of interactions between the German-speaking and non-German-speaking world.

Students in German Studies courses benefit from the existence of the Canadian Centre for German and European Studies at York University (230 York Lanes). Although its resources are aimed at the graduate level, many guest lectures and materials housed in the centre are also suitable for students at the undergraduate level.

### Courses in German Studies

*Note: For purposes of meeting program requirements, all Foundations courses will count as six credits towards the major. For specific requirements of programs in German Studies, please consult the Faculty of Arts "Programs of Study" section.*

Descriptions of the content and format of these courses are contained in the appropriate departmental and divisional listings in this Calendar. Not all courses will necessarily be offered in any given year; for details of courses to be offered, consult the coordinator. For further and more detailed course listings please consult the German Studies supplemental calendar and the program advisers.

### Required Courses:

**AS/GER 2200 6.0 Introduction to German Literature and Culture.** An introduction to German literary texts in their cultural context. The course provides the basis for further work in German Literature and the broader field of German Studies.

*Prerequisites: AS/GER 1000 6.0 with a minimum grade of "B" and concurrent registration in AS/GER 1050 6.0; or AS/GER 1040 6.0, or AS/GER 1050 6.0, or permission of the department.*

*Degree credit exclusion: AS/GER 2201 6.0.*

*Note: AS/GER 2201 6.0 does not count for major/minor credit towards a degree in German. Either AS/GER 2200 6.0 or AS/GER 2201 6.0 will count for major credit towards a degree in German Studies.*

*Note: Students have the option to write essays, assignments and tests in either English or German; however, students are required to write several assignments as well as respond to several test and exam questions in German.*

*Language of Instruction: German.*

**AS/GER 2201 6.0 Introduction to German Literature and Culture (in translation).** An introduction to German literary texts in their cultural context. The course provides the basis for further work in German Literature and the broader field of German Studies.

*Prerequisite: No knowledge of German is necessary.*

*Degree credit exclusion: AS/GER 2200 6.0.*

*Note: AS/GER 2201 6.0 does not count for major/minor credit towards a degree in German. Either AS/GER 2200 6.0 or AS/GER 2201 6.0 will count for major credit towards a degree in German Studies.*

*Language of Instruction: English.*

**AS/HIST 3320 6.0 Modern Germany: 1871 to the Present.** Modern Germany from the formation of the Bismarckian Empire through the Weimar Republic and the Nazi regime to the division of Germany after 1945. The analysis centers on the interrelationship of political and socio-economic developments, foreign and domestic policies.

**AS/HUMA 2190 9.0 Germany Through the Ages: Culture and Society.** This course introduces students to the culture of Germany and the German-speaking countries from a North American perspective. The course takes an intercultural and interdisciplinary approach to key aspects of the literary, artistic, political and social history of these countries. (This course is affiliated with Calumet College.)

*Degree credit exclusion: AS/HUMA 2190 6.0.*

### Other Courses in German Studies:

AS/ANTH 3000N 3.0 Barbarian Europe.  
AS/GEOG 3040 6.0 Geography of Europe.  
AS/GER 1000 6.0 Elementary German.  
AS/GER 1020 6.0 Elementary German for Reading Knowledge.  
AS/GER 1050 6.0 Intermediate German.  
AS/GER 2040 6.0 Advanced German, Level I.  
AS/GER 3043 3.0 Advanced German, Level IIA.  
AS/GER 3045 3.0 Advanced German, Level IIB.  
AS/GER 3100 3.0 German Regional Linguistic Varieties.  
AS/GER 3110 3.0 Syntactic Structure of Modern German.  
AS/GER 3600 3.0 Berlin in German Literature and Culture. (Degree credit exclusion: AS/GER 4600 3.0)(Cross-listed AS/HUMA 3600 3.0)  
AS/GER 3610 3.0 The German Drama in the 20th Century.

AS/GER 3790 6.0 Germany in Film: Literary and Historical Perspectives.

AS/GER 4100 3.0 German Regional Linguistic Varieties.

AS/GER 4110 3.0 Syntactic Structure of Modern German.

AS/GER 4120 3.0 Theory and Practice of Translation: German-English, English-German.

AS/GER 4600 3.0 Berlin in German Literature and Culture. (Degree credit exclusion: AS/GER 3600 3.0, AS/HUMA 3600 3.0)

AS/GER 4610 3.0 The German Drama in the 20th Century.

AS/GER 4620 3.0 Bertolt Brecht: Literature, Culture and Politics (in Translation). (Cross-listed to: AS/HUMA 4881 3.0)

AS/GER 4700 3.0 The Works of Franz Kafka (in Translation). (Cross-listed to: AS/HUMA 4880D 3.0)

GL/HIST 1690 6.0 Pensees et civilisations européennes.

AS/HIST 2220 6.0 Medieval and Early Modern Europe.

AS/HIST 2300 6.0 Modern Europe.

GL/HIST 3255 3.0 Reformation Europe 1494-1598.

GL/HIST 3360 3.0 European Social History 1750-1914.

AS/HIST 3365 3.0 European Fascism: 1890-1945.

GL/HIST 3615 3.0 Art as Propaganda.

GL/HIST 3680 6.0 German History from Napoleon to the Berlin Wall. (Cross-listed to: GL/HUMA/SOSC 3680 6.0)

AS/HIST 3820 3.0 Welfare States in Comparative Perspective.

AS/HIST 4350 6.0 European Thought in Early 20th Century.

AK/HIST 4540 6.0 The Third Reich: Seminar on Hitler and the Nazis in Germany.

AS/HUMA 2160 9.0 Romanticism and Its Legacy.

AS/HUMA 2170 6.0 Modern Art: 1750 to the Present.

AS/HUMA 3600 3.0 Berlin in German Literature and Culture. (Degree credit exclusion: AS/GER 4600 3.0)(Cross-listed AS/GER 3600 3.0)

AS/PHIL 2120 3.0 Existentialism.

AS/PHIL 3125 3.0 Contemporary Existentialism.

AS/PHIL 3640 3.0 German Philosophy.

AS/POLS 3530 3.0 West European Politics.

AS/POLS 4205 3.0 The New German Politics and European Integration.

AS/POLS 4435 3.0 The Extreme and Neo-Fascist Right in Contemporary Europe.

AS/POLS 4445 3.0 European Union.

FA/VISA 2620 6.0 Modern Art: 1750 to the Present.

## Global Political Studies – Arts

### Program Office (Department of Political Science):

S672 Ross, 416-736-5267

### Program Coordinator:

D. Mutimer

### Associated Faculty:

A. Acharya, I. Bakker, A. Bayefsky,  
M. Bernard, H-G. Betz, A. Denholm Crosby,  
D. Dewitt, A. Dobrowolsky, E. Dosman,  
F. Fletcher, I. Frolic, S. Gill, I. Greene,  
J. Hellman, S. Hellman, S. Henders,  
D. Leyton-Brown, D. Marien, K. McRoberts,  
A. Mukherjee-Reed, D. Mutimer,  
S. Newman, J. Nitzan, L. North, L. Panitch,  
S. Plekhanov, H. Simmons, O. Subtelny,  
S. Whitworth

The Specialized Honours BA program in Global Political Studies (GPS) provides students with the skills required to analyze global political forces, as well as giving them a broad and liberal education. The GPS program provides an excellent background for future public service work abroad, especially when combined with selected courses in the Public Policy and Administration program. As well, the GPS program is useful for anyone who hopes to find private sector employment in a job dealing with international issues, or for anyone who hopes to pursue graduate studies in international relations or comparative world politics.

Students may wish to specialize in areas such as development studies, post-communist studies, area studies, peace and security, or international political economy for the purposes of preparing for graduate school or for a particular employment goal. These students should consult the program coordinator to seek advice about appropriate course selection.

Students in this program must maintain an overall grade point average of 5.0 (C+) in order to remain in the program and qualify for graduation. For degree requirements please refer to the Faculty of Arts "Programs of Study" section in this Calendar.

### Departmental Courses in Global Political Studies

Descriptions of the content and format of these courses are contained in the appropriate departmental listings in this Calendar. Not all courses will necessarily be offered in any given year; for details of courses to be offered, consult the Director of the program.

*Note: For specific requirements of this program, please consult the Faculty of Arts "Programs of Study" section.*

AS/POLS 1000 6.0 Introduction to Politics: Exploring the Democratic Experience.  
AS/POLS 2040 6.0 Introduction to Political Theory.  
AS/POLS 2210 6.0 Introduction to International Relations.  
AS/POLS 2510 6.0 Introduction to Comparative Government and Politics.  
AS/POLS 3065 3.0 Political Culture of Race and Racism.  
AS/POLS 3200 3.0 Global Conflict and Security I.  
AS/POLS 3210 3.0 Global Conflict and Security II.  
AS/POLS 3220 3.0 Comparative Foreign Policy Analysis.

AS/POLS 3230 3.0 Global Issues in Foreign Policy.  
AS/POLS 3235 3.0 Russia and the World: Issues in Contemporary Russian Foreign Policy.  
AS/POLS 3240 3.0 Multilateralism I: Introduction to International Organization.  
AS/POLS 3250 3.0 Multilateralism II: Structures and Processes.  
AS/POLS 3260 6.0 War and Peace in the Middle East.  
AS/POLS 3270 3.0 Global Political Economy I: Theory and Approaches.  
AS/POLS 3275 3.0 Global Political Economy II: Issues and Problems Since 1945.  
AS/POLS 3280 3.0 Canada and World Affairs.  
AS/POLS 3405 3.0 Comparative Perspectives in Public Policy and Political Economy.  
AS/POLS 3425 3.0 Comparative Constitutional Law.  
AS/POLS 3450 3.0 Women and Politics. (Cross-listed to: AS/AK/GL/WMST3516 3.0, AS/SOSC3170 3.0)  
AS/POLS 3455 3.0 Topics in Women and Politics. (Cross-listed to: AS/SOSC3175 3.0, AS/AK/GL/WMST3517 3.0)  
AS/POLS 3500 3.0 The Rise and Fall of Communism in Russia and Eastern Europe.  
AS/POLS 3502 3.0 Transforming Russia: The Burden of History and the Imperative of Change.  
AS/POLS 3503 3.0 Russia and Canada: Comparing the Two Societies.  
AS/POLS 3510 3.0 Government and Politics in China.  
AS/POLS 3515 3.0 China and the World.  
AS/POLS 3530 3.0 West European Politics.  
AS/POLS 3540 3.0 American Government and Politics.  
AS/POLS 3545 3.0 Freedom, Wealth and Economy: Society and Political Economy in the United States.  
AS/POLS 3550 3.0 The Politics of Central America.  
AS/POLS 3555 3.0 The Politics of South America.  
AS/POLS 3560 3.0 Politics of the Third World.  
AS/POLS 3570 3.0 Africa: Politics of Continental Crisis.  
AS/POLS 3590 3.0 Japan and World Order.  
AS/POLS 3700 3.0 Political Economy of Industrial Democracies.  
AS/POLS 3710 3.0 The Political Economy of the Newly-Industrialized Countries.  
AS/POLS 3720 3.0 Post-Communist Transformations: Can East Become West?.  
AS/POLS 3790 3.0 Political Economy of Latin America and the Caribbean.  
AS/POLS 4170 3.0 Politics of Security and Intelligence.  
AS/POLS 4200 3.0 International Relations Theory.  
AS/POLS 4205 3.0 The New German Politics and European Integration.  
AS/POLS 4210 3.0 Peace Research.  
AS/POLS 4215 3.0 Multilateralism.  
AS/POLS 4220 3.0 Canadian National Security Policy.  
AS/POLS 4225 3.0 Canada and the Americas.  
AS/POLS 4235 3.0 Latin American Development.  
AS/POLS 4260 3.0 Contemporary Security Studies.

AS/POLS 4270 3.0 United States Foreign Policy.  
AS/POLS 4280 3.0 Soviet and Post-Soviet Foreign Policies.  
AS/POLS 4290 3.0 Topics in International Political Economy.  
AS/POLS 4291 3.0 Capital and Power in the Global Political Economy  
AS/POLS 4440 3.0 Human Rights in Europe and Canada: A Comparative Approach.  
AS/POLS 4445 3.0 European Union.  
AS/POLS 4450 3.0 Madness, Asylums and Politics I.  
AS/POLS 4455 3.0 Madness, Asylums and Politics II.  
AS/POLS 4470 3.0 Working Class Politics in Capitalist Democracies.  
AS/POLS 4520 3.0 Nationalism, Communism and Imperialism.  
AS/POLS 4530 3.0 Crisis and Collapse of the Soviet Bloc.  
AS/POLS 4540 6.0 Caribbean Politics.  
AS/POLS 4545 3.0 Approaches to American Politics.  
AS/POLS 4575 3.0 The Politics of Southern Africa.  
AS/POLS 4590 3.0 Political Development in India.  
AS/POLS 4595 3.0 Southeast Asia in the New Global Order.  
AS/POLS 4630 3.0 Policy Making and Royal Commissions.  
AS/POLS 4700 3.0 Topics in the International Political Economy of Eastern Asia.  
AS/POLS 4705 3.0 International Politics of Human Rights and Democracy in Asia.  
AS/POLS 4735 3.0 After the Fall: International Relations of Collapsed Socialism.  
AS/POLS 4770 3.0 Political Economy of Development.  
AS/POLS 4985 6.0 Global Political Studies Honours Colloquium.

### Health and Society – Arts

**Program Office (Division of Social Science):**  
S741 Ross, 416-736-5054  
**Coordinator of the Program:**  
P. Antze, Social Science

"Health and Society" is a term used to denote a body of scholarship that has emerged over the past 20 years in response to perceived limitations in a strictly biomedical approach to health issues. The health and society concept embraces research conducted in a number of overlapping interdisciplinary fields including: history and philosophy of medicine; medical sociology; behavioural medicine; medical anthropology; social epidemiology; psychosomatic medicine; health psychology; community mental health; international development; family, the life course and gerontology; occupational health and safety; environmental health and women and health.

The program aims to meet the needs of students who wish to go on to work in health-related occupations, to enter graduate programs in health studies, or simply to enrich the experience of those who have general interests in health-related issues.

## Departmental and Divisional Courses in Health and Society

*Note: For specific requirements of this program, please consult the Faculty of Arts "Programs of Study" section.*

*Note: Not all courses will necessarily be offered in any given year; for details of courses to be offered, consult the Social Science supplemental calendar, available from the divisional office, S748 Ross.*

### Anthropology

AS/ANTH 3080 6.0 Modes of Enablement.  
AS/ANTH 3190 6.0 Nutritional Anthropology: Food and Eating.  
AS/ANTH 3280 6.0 Psychiatric Anthropology and Social Stress.  
AS/ANTH 3330 6.0 Health and Illness in Cross-Cultural Perspective.

### Kinesiology and Health Science

AS/KINE 2020 3.0\* Introduction to Health.  
AS/KINE 3640 3.0\* Epidemiology of Physical Activity, Fitness and Health.  
AS/KINE 4020 3.0\* Human Nutrition I (AS/SC/KINE 3080 3.0, AS/SC/KINE 4470 3.0).  
AS/KINE 4640 3.0\* Lifestyle and Current Health Issues.  
AS/KINE 4660 3.0\* Exercise and Addictive Behaviours.  
AS/KINE 4710 3.0\* Psychology of Health and Chronic Disease.

### Philosophy

AS/PHIL 2070 3.0 Introductory Ethics.\*\*  
AS/PHIL 2075 3.0 Introduction to Applied Ethics.\*\*  
AS/PHIL 3020 3.0 Ethics.  
AS/PHIL 3025 3.0 Practical Ethics. \*\*  
AS/PHIL 3260 3.0 Philosophical Foundations of Cognitive Science.\*\* (Cross-listed to: AK/PHIL 3635 3.0)  
AS/PHIL 3265 3.0 Philosophy of Mind.\*\*  
AS/PHIL 3280 3.0 Mind and Nature: Philosophy of Biology.

### Political Science

AS/POLS 4000C 3.0 The Political Economy of Food.  
AS/POLS 4450 3.0 Madness, Asylums and Politics I.  
AS/POLS 4620 3.0 Health Policy in Canada  
AS/POLS 4625 3.0 Issues in Canadian Health Policy.

### Psychology

AS/PSYC 3440 3.0 Introduction to Health Psychology.  
AS/PSYC 3490 3.0 Psychology of Adult Development and Aging.  
AS/PSYC 3560 3.0 Psychology of Death and Dying. (Cross-listed to: AK/PSYC 3290 3.0)  
AS/PSYC 3590 Drugs and Behaviour.  
AS/PSYC 4040 6.0 Rehabilitation Psychology.

### Sociology

AS/SOCI 3820 6.0 Sociology of Health and Health Care.  
AS/SOCI 3850 3.0 Social Gerontology.

AS/SOCI 4300 3.0 Sociology of Health Care Delivery.  
AS/SOCI 4970 3.0 Sociology of Adult Development.

### Social Science

AS/SOSC 2110 6.0 A Critical Study of Health and Society.  
AS/SOSC 2112 6.0 The Political Economy of Health: Comparative Perspectives.  
AS/SOSC 2150 6.0 Families in Crisis: Issues of Health Environments and Poverty.  
AS/SOSC 3090 6.0 Medicine and North American Society in Historical Perspective. (Cross-listed to: AS/HIST 3880 6.0)  
AS/SOSC 3111 6.0 Special Topics in Health and Society.  
AS/SOSC 3112 6.0 Health and Society in the Third World.  
AS/SOSC 3113 6.0 Health Care Professions: Theories and Issues.  
AS/SOSC 3120 6.0 To Be or Not To Be: Suicide and Culture in Comparative Perspective.  
AS/SOSC 3162 3.0 Drama, Ritual and Healing.  
AS/SOSC 3163 3.0 Drama and Therapy.  
AS/SOSC 3164 6.0 Occupational and Environmental Health.  
AS/SOSC 3920 6.0 Disability and Society: Historical Sociocultural and Educational Issues.  
AS/SOSC 4140 6.0 Health and Society Seminar.  
AS/SOSC 4150 6.0 Aging and Caregiving.

### School of Women's Studies

AS/AK/GL/WMST 3511 3.0 Women's Sexualities. (Cross-listed to: GL/SOSC 3625 3.0)

### Atkinson

#### Administrative Studies

AK/ADMS 2300 6.0 Research Methods in Health Studies.  
AK/ADMS 3400 3.0 Occupational Health and Safety.\*\*  
AK/ADMS 3710 3.0 Comparative Health Administration.\*\*  
AK/ADMS 4710 3.0 The Canadian Health System. (Cross-listed to: AK/NURS 4710 3.0)  
AK/ADMS 4720 3.0 Management of Health Facilities.\*\*+

#### Economics

AK/ECON 3520 3.0 Economic Evaluation in Health Care. \*\*

#### Geography

AK/GEOG 3460 6.0 Medical Geography.  
AK/GEOG 3470 3.0 Geography of Nutrition.

#### Nursing

AK/NURS 2720 3.0 Perspectives on Health and Health Promotion.  
AK/NURS 3740 3.0 Health Care Planning for Communities. + \*\*  
AK/NURS 4710 3.0 The Canadian Health Care System. (Cross-listed to: AK/ADMS 4710 3.0)

### Philosophy

AK/PHIL 3519 3.0 The Body in Feminist Thought.  
AK/PHIL 3600 6.0 Health Ethics.  
AK/PHIL 3710 3.0 Philosophy of Body Therapy.

### Psychology

AK/PSYC 3215 3.0 Abnormal Psychology.  
AK/PSYC 3290 3.0 Psychology of Death and Dying. (Cross-listed to: AS/PSYC 3560 3.0)  
AK/PSYC 3700D 3.0 Aging and Human Development.

*Degree credit exclusion: AS/PSYC 3490 3.0.*

AK/PSYC 4210 3.0 Counselling and Psychotherapy: Systems and Theories I.  
AK/PSYC 4240 3.0 Counselling and Psychotherapy: Skills and Applications.

### Sociology

AK/SOCI 3490 6.0 Sociology of Health.  
*Degree credit exclusions: AK/ADMS 4700 3.0, AS/SOCI 3820 6.0, GL/SOCI 3230 6.0.*  
AK/SOCI 3830 6.0 Women's Health and Medical Practice.  
AK/SOCI 3850 6.0 Women, Violence and Social Policy.  
AK/SOCI 4240 6.0 Health, Society and Human Resources.

### Social Science

AK/SOSC 3520 6.0 Social Construction of Health and Illness.

### Social Work

AK/SOWK 3010 3.0 Foundations of Health Care Assessment and Planning. +\*\*  
AK/SOWK 3020 3.0 Issues in Health Care Assessment and Planning. +\*\*

### Glendon

#### Sociology

GL/SOCI 3230 6.0 Sociology of Health and Illness.  
*Degree credit exclusion: AK/ADMS 4700 3.0, AK/SOCI 3490 6.0, AS/SOCI 3820 6.0 GL/SOCI 3945E 3.0 Social Policy the Case of Mental Health.*

#### Psychology

GL/PSYC 3230 3.0 Abnormal Psychology.  
GL/PSYC 3300 3.0 Introduction to Development: Infancy and Childhood.  
GL/PSYC 3310 3.0 Introduction to Development: Adolescence, Adulthood and Aging.  
GL/PSYC 3510 3.0 Disturbances in Development.  
GL/PSYC 3700 3.0 Health Psychology.

+ Students may only enrol in **one of these courses.**

\* Students interested in these courses should consult with the Kinesiology and Health Science Office prior to their YES date.

\*\* Degree credit for these courses is conditional upon approval by the Health and Society coordinator.

## History – Arts

### Department Office:

2140 Vari Hall, 416-736-5123; Fax  
416-736-5836

### Web Address:

[www.yorku.ca/history](http://www.yorku.ca/history)

### Chair of the Department:

M. Shore

### Distinguished Research Professor:

P.E. Lovejoy

### Distinguished Research Professors

#### Emeriti:

J. Bosher, J. Ch'en, J. Granatstein, G. Kolko

### University Professors Emeriti:

S. Eisen, W.W. Piepenburg, J. Saywell

### Professors:

I. Abella, C. Armstrong, R.D. Cuff, M. Egnal,  
A. Haberman, R.C. Hoffmann, W. Irvine,  
A.S. Kanya-Forstner, M.P. Maidman,  
H.V. Nelles, P. Oliver, N.C.T. Rogers, M.  
Shore, A. Shubert, O. Subtelny, B.T.  
Wakabayashi

### Professors Emeriti:

G.R. Cook, J. Ernst, L. Hertzman,  
V.J. Hunter, F. Ouellet, R. Storr

### Associate Professors:

B. Bradbury, S. Brooke, E. Cohen, T.V.  
Cohen, J.C. Edmondson, D. Hay, C. Heron,  
M. Ladd-Taylor, T.J.A. Le Goff, B.H. Luk, K.  
McPherson, E. Melville, P.M. Mitchell, J.M.  
Neeson, R. Schneider, M. Shore,  
I. Steinisch, P.D. Stevens, P.R. Swarney,  
J. Trevett, D. Trotman

### Associate Professors Emeriti:

H. Bowsfield, C. Dent, S.E. Houston, G.  
Jordan, J.M. Maiguashca, F. Matthews,  
J.M.P. McErlean

### Assistant Professors:

T. Abdullah, G.A. Ginsburg, M. Martel,  
A. Rubenstein, M. Stein, W. Wicken

### Sessional Assistant Professor:

J. Curto

The History Department offers a variety of approaches to the study of history, and a variety of courses ranging from ancient to contemporary and from Canadian to Third World history. Courses introducing History majors, minors and potential majors to the discipline of history, its techniques, its methods and its own history are offered at the 1000 level. Basic introductory courses in all the broad fields are given each year at the 2000 level, and these lead to more specialized courses at the 3000 level. 4000-level seminars enable small groups of Honours students to concentrate on the close investigation of specific historical problems. Students are responsible for their own selection of courses within the limits of the department's regulations, and advisers are available to help them plan coherent programs of study.

*Note: For specific requirements of programs offered by this department, please consult the Faculty of Arts "Programs of Study" section.*

## Courses in History

Courses at the 1000 level have either a lecture/tutorial or a seminar format. Courses at the 2000 level normally have two lecture hours and one tutorial hour. Courses at the 3000 level are taught as lecture courses. 4000-level courses will be offered as two-hour seminars or three-hour colloquia. All courses above the 1000 level in History are open to students studying in other departments, unless otherwise indicated. Admission to 4000-level seminars is by permission of the instructor or the instructor's representative. The department urges all students whose concentration is in History to contact the appropriate faculty adviser before choosing courses. If you have any questions, contact the History department office, 2140 Vari Hall, telephone 416-736-5123.

All History courses are numbered and grouped according to field. The thousands digit indicates the level at which the course is offered, the hundreds digit the field (general 000, ancient 100, premodern Europe 200, modern Europe 300, Great Britain 400, Canada 500, United States 600, Africa, Asia and Latin America 700, comparative and interdisciplinary courses 800), and the tens digit indicates the number of the course within the field.

*Note: Not all the courses listed below will be offered in any one academic year. A supplementary calendar, including courses to be offered and advising procedures for the coming year, will be published each February/March. Copies are available in the department office.*

*Note: For a list of Atkinson courses which are degree credit exclusions, students should consult the degree credit exclusion/equivalent tables in the Lecture Schedule or the departmental/divisional supplemental calendars.*

### I. 1000-Level Courses

*Note: Courses at the 1000 level introduce History majors, minors and potential majors to the discipline of history, its techniques, its methods and its own history. These courses have either a lecture/tutorial or a seminar format.*

**AS/HIST 1000 6.0 Issues in History.** An investigation of major issues in various historical periods and fields designed to teach historical methods, the basic skills of research and writing, and the nature of historical arguments and judgments. Topics vary from year to year. For details, consult the department.

**AS/HIST 1010 6.0 War, Revolution and Society in the 20th Century.** A study of the major political and social upheavals which have helped to shape the contemporary world. The course concentrates on the origins of the two world wars and the "Cold War," and on their consequences. Topics chosen for detailed examination vary from year to year.

**AS/HIST 1020 6.0 The Emergence of the Nation-State: The Quest for National Identity in Europe and North America.** This course studies the origin and development of the nation-state in Western Europe and North America from the mid-18th century to the present. It focuses on the relationship of the ideas of individuals and groups to political, economic and social life in the Atlantic world.

**AS/HIST 1030 6.0 Imperialism and Nationalism in Modern Asia.** This course concerns the community of independent Asian nations, examining their distinctive traditional societies, the impact of imperialism, their reactions to it and their modern evolution.

**AS/HIST 1040 6.0 From Colony to Nation.** A study of some of the major problems which have helped to shape the Canadian nation in its development from a colony to a nation. Topics chosen for detailed examination vary from year to year.

**AS/HIST 1050 6.0 Ordinary People in a Changing World: Europe and North America, 1700-1914.** Explores the ways in which large historical forces in the recent past, such as industrialization, urbanization and the growth of the state, have affected family, community, work and leisure and ways in which people have responded, embracing, adapting to or resisting change.

**AS/HIST 1060 6.0 Revolutions in Thought: The Modern West.** An investigation of major developments in the intellectual history of the West from the Renaissance to the present. Examples of topics studied are the relationship between the individual and society; science and human understanding; the idea of nationalism; and belief and unbelief.

**AS/HIST 1070 6.0 Ontario: Politics, Economy and Society.** This course examines selected topics in the history of Ontario from the period of European contact to the present to explain how this region has emerged as a distinct element within the larger Canadian context.

### II. 2000-Level Courses

*Note: Courses at the 2000 level are basic introductory courses in all the broad fields taught in the department. These lead to more specialized courses at higher levels. 2000-level courses normally have two lecture hours and one tutorial hour.*

**AS/HIST 2100 6.0 Ancient Greece and Rome.** A study of the Greek and Roman world, with particular emphasis on its social, economic, and intellectual history, using primary sources — archaeological, epigraphic and literary — wherever possible.

**AS/HIST 2110 6.0 The Ancient Near East.** This course surveys the history of some of the oldest civilizations of the world and their immediate successors; Sumer, Akkad, Assyria, Babylonia, Egypt, "Hittite-land," Canaan and Israel. Problems of how to determine the facts of ancient history are also discussed.

**AS/HIST 2220 6.0 Medieval and Early Modern Europe.** This course surveys the economic, political, social and cultural evolution of Europe from the fall of the Roman Empire to the 17th century.

*Degree credit exclusions: AS/HIST 2200 6.0, AS/HIST 2210 6.0, GL/HIST 2625 6.0, GL/HIST 3225 3.0, AK/HIST 2510 6.0.*

**AS/HIST 2300 6.0 Modern Europe.** An introduction to the development of modern Europe from the emergence of the seaborne empires to the First World War. Each week, there are two lectures on aspects of European society, politics and intellectual life during the past three centuries.

**AS/HIST 2310 6.0 Russian Culture: Continuity and Conflict.** This course examines Russian culture in an historical and social context focusing on Kievan Rus', the rise of Muscovy, the expansion of the Russian Empire and its revolutionary mutation into the Soviet Union and the post-Soviet contemporary scene.

*Cross-listed to: AS/RU 2750 6.0 and AS/HUMA 2990D 6.0.*

**AS/HIST 2400 6.0 British History.** An examination of the evolution of Britain through the analysis of a series of major problems in political, social, economic and intellectual history. The topics chosen touch upon the main features of British development.

**AS/HIST 2500 6.0 Canadian History.** An introduction to the development of Canada from pre-European native societies to the present, including the evolution of the economy, social structures and social movements, family and gender relations, cultural development and conflicts, federal and provincial politics and external relations.

**AS/HIST 2600 6.0 United States History.** This broad survey of United States history from colonization to the present explores the interlocking patterns of political, economic, social and cultural change. The racial and ethnic diversity of the US is a major theme.

**AS/HIST 2710 6.0 East Asia: Tradition and Defiance.** This course explores how distinctive patterns of government, society and culture emerged over four millennia in East Asia — primarily China and Japan — and how this endogenous development prepared those nations to confront and challenge Western supremacy in the modern world.

*Degree credit exclusion: AS/HIST 2710 6.0.*

**AS/HIST 2720 6.0, Modern Latin America, 1810 to the present.** An introduction to the history of post-colonial Latin America from the early 19th century to the present, with attention to economic, social, political and ideological developments.

*Degree credit exclusion: AS/HIST 3720 6.0 (prior to Fall/Winter 2000).*

**AS/HIST 2750 6.0, African History, from 1800 to the present.** The history of the African continent from 1800 to the present, concentrating on such major themes as political and economic

change in pre-colonial African states, the impact of colonial rule and the emergence of modern nationalism.

*Degree credit exclusion: AS/HIST 3750 6.0 (prior to Fall/Winter 2000).*

**AS/HIST 2790 6.0, The Islamic World.** A survey of the history of Islamic societies from the seventh century to the present. Topics covered include the nature of Islamic civilization, the diversity of Islamic traditions, social and economic transformations, the impact of westernization and the struggle for independence.

*Degree credit exclusions: AS/HIST 3790 6.0 (prior to Fall/Winter 2000), AK/HIST 3530 6.0.*

### III. 3000-Level Courses

*Note: Courses at the 3000 level are specialized courses in the fields taught by the department. They are offered either as colloquia or as lecture courses.*

**AS/HIST 3000 6.0 Contemporary History: Theory and Practice.** A study of the major schools of historical thought of the 20th century and their methodological contributions to the discipline.

**AS/HIST 3100 6.0 Mesopotamian History.** Investigations include the neolithic "revolution"; the Sumerian problem; pre-Sargonic Sumer; the Sargonic and Ur III Empires; the collapse of Sumer ecological, economic and ethnic factors; old Babylonia and the new order; the Amarna Age; and the Iron Age.

**AS/HIST 3110 6.0 Ancient Israel: From Its Origins in the Settlement to the Babylonian Exile.** Investigations include methodological limitations; Old Testament, archaeology and ideology; Israel's origins the settlement in Canaan; Philistia and the Israelite state; the Davidic Revolutions; the twin kingdoms, economic, religious and topographic factors; Assyria, Babylonia and the end of the Israelite people.

*Degree credit exclusion: AS/HIST 3140 6.0.*

**AS/HIST 3111 6.0 Practicum in Biblical Archaeology.** This course involves the recovery and analysis of the material remains of the cultures of ancient Israel and Philistia. The course includes excavating an analysing artefacts, and provides an introduction to archaeological methodology and to specific aspects of "Biblical" archaeology.

*Cross-listed to: AS/HUMA 3000N 6.0.*

**AS/HIST 3120 6.0 Foundations of Athenian Democracy.** A study of Athens in the fifth century BC, concentrating on social and economic structures and institutions. The course concerns itself with topics appropriate to a pre-industrial society, such as peasants, slaves and the development and function of the early state.

**AS/HIST 3130 6.0 The Roman Revolution.**

An examination of the political, cultural, economic and social transformation of the Roman state and society during the late Roman republic and early empire.

**AS/HIST 3131 6.0 Rome and Empire: From War to the Pax Romana.** Rome's growth from city-state to Empire. Topics considered include the nature of Roman imperialism, the mechanisms of Roman conquest, the emergence of a system of provincial administration and the social, economic and cultural impact of conquest on Roman and provincial societies.

**AS/HIST 3150 6.0 Early Greek History from the Bronze Age to the Persian Wars.** This course examines the political, social, economic and intellectual history of Greece in the Bronze Age and the Archaic Period. It covers Mycenaean Greece, the Dark Age, the rise of the city-state and culminates in the Persian Wars.

**AS/HIST 3200 6.0 Structure and Function in the Institutions of Medieval Society.**

Through research in primary sources for law, government, economics and social organization, a detailed examination of the institutions of life in medieval Europe, plus a review of major schools and analytic techniques in the recent historiography of the subject.

**AS/HIST 3211 3.0 Economic Development of Preindustrial Europe.** Structures and changes in European economic life from the end of ancient civilizations to the beginnings of Industrial Revolution.

*Degree credit exclusion: AS/HIST 3210 6.0.*

**AS/HIST 3212 3.0 Society in Preindustrial Europe: Selected Themes.** Issues and perspectives in the evolution of social life and structures in Europe between the demise of ancient society and the transformations which began in the 18th century.

*Degree credit exclusion: AS/HIST 3210 6.0.*

**AS/HIST 3225 6.0 At the Fringes of the Medieval West.** A comparative analysis of five "peripheral" regions which experienced the impact of European expansion or became part of "Europe" during the middle ages: the Celtic west, Iberia, Scandinavia, east-central Europe and the eastern Mediterranean. Uniting the sections is a continuing concern for the conditions, character and result of cultural contact and interaction in the medieval context.

*Degree credit exclusion: AS/HIST 3240 6.0.*

**AS/HIST 3230 6.0 The Renaissance.** The emergence of European consciousness, with readings in intellectual history from the 14th to the 17th centuries.

**AS/HIST 3233 6.0 Women in Medieval and Early Modern Europe.** This course investigates the experiences of pre-modern women in the realms of society, economy, politics, religion and culture. Considered in

their impact on institutions, groups and individuals are ideas about the nature of the sexes and their roles.

**AS/HIST 3250 6.0 Italy in the Renaissance.** The political and social institutions which fostered the intellectual and artistic culture of the Italian Renaissance.

**AS/HIST 3300 6.0 France Since Louis XIV.** This course emphasizes social and economic history, focusing on such topics as the social structure in the *ancien régime*; the Enlightenment, the various revolutions, political and social movements, the growth of an industrial economy and France in Europe and the world.

**AS/HIST 3310 3.0 Russia: From Origins to 1917.** Russia from primitive princely state to the collapse of the Romanov dynasty in 1917.

**AS/HIST 3311 3.0 History of the Soviet Union.** This course examines the evolution of the world's first communist regime. After examining the traditional struche government, the role of the Communist party and the nature of Soviet politics, it focuses on Gorbachev's attempts to reform the system.

**AS/HIST 3315 3.0 Modern Ukrainian History.** This course focuses on the integration of Ukrainians into the Habsburg and Russian empires, socio-economic change, cultural and ideological development and the emergence of a modern Ukrainian nation. Other topics include the Revolution of 1917-1921, Soviet and western Ukraine between the wars, the impact of World War II and developments in Soviet Ukraine in the post-war period.

**AS/HIST 3320 6.0 Modern Germany: 1871 to the Present.** Modern Germany from the formation of the Bismarckian Empire through the Weimar Republic and the Nazi regime to the division of Germany after 1945. The analysis centers on the interrelationship of political and socio-economic developments, foreign and domestic policies.

**AS/HIST 3330 6.0 Ideas and Movements in 19th-Century Europe.** European thought and action from the Congress of Vienna to World War I, emphasizing such topics as attitudes toward science, the development of various schools of art, literature and philosophy, nationalism and the idea of a state system and reform and revolutionary movements.

**AS/HIST 3350 6.0 Modern Italy: 1815-1945.** This course examines the social, economic and political development of Italy from the end of the Napoleonic Wars until the end of the Second World War.

*Degree credit exclusion: GL/HIST 3410 3.0.*

**AS/HIST 3365 3.0 European Fascism: 1890-1945.** This course examines the varieties of European fascism that emerge after 1890, the intellectual and cultural origins of fascist ideology and the nature of fascist movements and regimes in inter-war Europe.

*Degree credit exclusion: GL/HIST 4230 6.0.*

**AS/HIST 3380 3.0 Eastern Europe, 1772-1918.** A survey of the emancipation from Turkish, Habsburg, Prussian and Russian empires of East European countries from the awakening of national consciousness in the 18th century to new arrangements at the end of World War I.

*Degree credit exclusion: AS/HIST 3380 6.0.*

**AS/HIST 3381 3.0 Eastern Europe, Since 1918.** The "Successor States"; their interwar problems and successes; evolution during World War II; four decades of Communist rule; "Return to Diversity" in the 1990's.

*Degree credit exclusion: AS/HIST 3380 6.0.*

**AS/HIST 3391 6.0 Italy, Spain and Portugal Since 1800.** An examination of the political, economic and social history of three southern European countries in the 19th and 20th centuries. A thematic approach emphasizes comparison among these three countries.

**AS/HIST 3392 3.0 The Spanish Civil War.** A study of one of the central events of modern European history, the Spanish Civil War. While examining the causes and nature of the war the course also considers the place of the conflict in European politics and culture.

**AS/HIST 3400 6.0 Tudor and Stuart England: 1485 to 1714.** Examines the recovery and development of English society after the late medieval crisis. Topics include: aristocracy and peasantry; crime and the law; women; religion; the Tudor state; the Civil War.

**AS/HIST 3415 6.0 Law, Property and Freedom in Britain and its Empire.** In Britain, and for three centuries in the British Empire (the West Indies, India, Ireland and much of North America, Africa and Asia), law defined liberty and property (including slaves), structured the economy, controlled labour, policed gender and constructed criminality.

*Degree credit exclusion: AS/HIST 3415 6.0.*

**AS/HIST 3440 6.0 Victorian Culture and Society.** A study of institutions, ideas and cultural movements using both primary and secondary sources from a variety of disciplines.

*Cross-listed to: AS/HUMA 3360 6.0.*

**AS/HIST 3480 6.0 British Society and Politics in the 20th Century.** The social and political history of Britain in the 20th century. Topics to be examined include social politics, the development of the welfare state, the trade union movement and the effects of two world wars upon British society.

**AS/HIST 3490 6.0 20th-Century Britain in Film and Culture.** This course examines 20th-century British history largely through the medium of film. The course comprises background lectures on important events and developments in 20th-century Britain, film viewings, and lectures and tutorials analysing and discussing the films.

**AS/HIST 3500 6.0 Old Ontario, 1783 to 1905.**

A regional approach to 19th-century Ontario which emphasizes the growth of a provincial society through the interrelationship of social, economic and political developments.

**AS/HIST 3510 6.0 Canada: The Making of a Nation.** This course examines the development of Canada's constitutional and political institutions during the 19th century. Particular emphasis is placed on the emergence of regional communities, the origins and development of the political party system, the politics of confederation, the origins and development of the Constitution.

**AS/HIST 3515 6.0 The Historical Geography of Canada to 1821.** This course focuses on the changing human geography of Canada from pre-European times to 1821. Dominant themes include European exploration, exploitation, and settlement; Native cultures and economies; and European-Native relations.

*Cross-listed to: AS/GEOG 3060 6.0.*

**AS/HIST 3520 6.0 The Canadian West, 1600-1990.** A study of the Canadian West, concentrating on such themes as Aboriginal societies, the fur trade, agricultural settlement, regional identity, urbanization, the social impact of war, and political movements such as feminism, the CCF and the Reform Party.

**AS/HIST 3530 6.0 Canadian Social History.** An introduction to the major themes of Canadian social development. Demography, geography, economy, social structure, and institutional development are among the major aspects to be examined.

*Cross-listed to: AS/SOSC 3250 6.0.*

**AS/HIST 3531 6.0 The Working Class in Canadian Society.** The changing nature of paid and unpaid work in Canada in the 19th and 20th centuries and the impact of those changes on Canadian society.

*Cross-listed to: AS/SOSC 3210 6.0.*

**AS/HIST 3533 6.0 The History of Women in Canada.** The political, economic and social history of women in Canada, from 1600 to the present. A thematic approach investigates commonalities and differences of women's experience.

*Degree credit exclusion: AK/HIST 3000D 6.0 (Fall/Winter 1996).*

**AS/HIST 3540 6.0 Canada in the French Empire (Before 1763).** Themes in the history of Canada as a French colony with special reference to the development of Atlantic trade and shipping, to the society and institutions of the mother country, to other European colonies, and to the imperial struggles of early modern Europe.

*Degree credit exclusion: AK/HIST 3000C 6.0.*

**AS/HIST 3543 3.0 Quebec – the Pre-Industrial Era.** The evolution of Quebec society from the 17th century to 1850. Special emphasis is placed on social and economic factors which affected the formation of the society and its evolution until the process of urbanization was engaged.



**AS/HIST 3544 3.0 Quebec – the Industrial Era.** The general evolution of Quebec society from 1850 to the 1980s. Special attention is placed on urbanization, industrialization, working class, women, education and ideologies.

**AS/HIST 3555 6.0 Canadian Jewish History.** A study of the origins, growth and development of the Canadian Jewish Community since the 1750's. Themes to be dealt with include immigration, Western Settlement, the Holocaust, religion, anti-semitism, Zionism, labour, integration and continuity.

**AS/HIST 3560 3.0 Canadian Economic Development to 1870.** An introduction to the economies, business institutions and policy requirements of the regional staple producing societies of Newfoundland, the Maritimes, New France and Lower Canada, Upper Canada and the Hudson's Bay Company territories.

*Degree credit exclusion: AS/ECON 3069 3.0.*

**AS/HIST 3561 3.0 Business and Government in Canada since Confederation.** Business and government have always been intertwined in Canada, from the construction of railways to free trade agreements. This course examines the changing roles played by both public and private sectors and the implications for Canadian society.

*Degree credit exclusion: AS/ECON 3079 3.0.*

**AS/HIST 3580 6.0 20th-Century Canada.** An analysis of the major events and developments affecting Canadian society during the past 100 years, including political and constitutional evolution, economic and social change and alterations in the climate of ideas.

**AS/HIST 3591 6.0 Politics, Law and the Constitution in Modern Canada.** The history of constitutional change and adaptation in Canada during the 20th century. Emphasis is placed upon the evolution of institutions (particularly the courts and the federal-provincial conference), changing doctrines of federalism, inter-governmental conflict over policies and jurisdiction and the definition and defence of fundamental human rights.

**AS/HIST 3600 6.0 Native Peoples and European Colonization in North America to 1783.** Focusing first on pre-contact Native American societies and their displacement from ancestral lands, this course will then examine the evolution of European societies north of the Rio Grande, namely New Spain, British North America, New France and the Caribbean.

**AS/HIST 3610 6.0 19th-Century United States Social History.** America's transition from an agricultural to a predominantly industrial society is viewed through the lives of ordinary people, using biographies and group studies.

**AS/HIST 3611 6.0 The Constitution and the New Nation, 1783-1824.** The making of the new American state and society in the aftermath of the Revolution. The interplay of politics, economics, social structure and ideas; Western expansion and relations with other countries.

**AS/HIST 3620 6.0 History of Sexuality in the United States.** This course explores the history of sexual attitudes, desires, behaviours, identities, communities and movements. Among the topics covered are reproduction, birth control and abortion; prostitution and commercialized sex; sexually-transmitted diseases; interethnic sexualities; and same-sex and cross-sex sexualities.

**AS/HIST 3621 6.0 America in the 19th Century: Jackson, the Civil War and Reconstruction.** American politics and society from 1820 to 1876. The emergence of democratic politics under Jackson, the causes and consequences of the Civil War, the modernization of American society.

**AS/HIST 3630 6.0 Interpretations of United States History since 1870.** An historical approach to the US social system and experience, covering such topics as the nature of the economy, the character of social classes and their political manifestations, the relationship of the economy and power and the nature of US relations with the world.

**AS/HIST 3640 6.0 The United States: Emergence of a Modern Society, 1865-1950.** The changing structure of American society from the Civil War to 1940. Economic maturity and overseas expansion. The mutual influence of changes in social structure, intellectual life, politics and the economy.

**AS/HIST 3660 3.0 US Economic and Business History to 1880.** The inception, rise, development and maturing of the US economy and the changing nature of business organization. Connections with political and social change are also emphasized.

**AS/HIST 3670 3.0 US Business History since 1880: The Origins and Consequences of Managerial Capitalism.** The inception, rise, development, maturing and present state of the US economy and the changing nature of business organization. Connections with political and social change are also emphasized.

**AS/HIST 3690 6.0 United States Foreign Policy Since 1890.** The major diplomatic policies and events, sources of policy and the goals the US has sought to attain, with special emphasis on US relations with the Third World and its participation in major wars.

**AS/HIST 3700 6.0 African, Caribbean and Latin American Connections: The Making of the South Atlantic World.** Relations between Europe and the non-European world from the 16th century to 1914 are studied comparatively, with emphasis on the nature of European empires, the impact of colonial rule, and the varied responses of non-European societies to European expansion.

*Degree credit exclusion: AS/HIST 2700 6.0 (prior to Fall/Winter 2000).*

**AS/HIST 3710 6.0 Ideology, Politics and Revolution in the Caribbean.** The economic, social and cultural roots of political change in the Caribbean from the Haitian

revolution of 1791 to the Cuban revolution of 1959. Particular emphasis is placed on the development of ideologies in Haiti, Cuba, Jamaica and Trinidad.

**AS/HIST 3730 6.0 Mexican History from the Aztecs to the Mexican Revolution (1325-1911).** The course deals with the processes of imperial expansion and collapse in the indigenous, Spanish and Mexican eras, within a context of increasing globalization.

**AS/HIST 3760 6.0 Modern Japan.** Japan from her unification as a nation in 1600, through the era of seclusion to 1868, and the drive for empire that ended in 1945, to recovery from defeat and evolution as a leading world economic power today.

**AS/HIST 3770 6.0 Modern China.** The process by which modern China emerged from the ruins of the traditional order, tracing the history of China from the early 19th century to the present.

**AS/HIST 3775 3.0 The History of Hong Kong.** The economic, political, social and cultural development of the city state of Hong Kong and its environs, within the context of Chinese and British imperial history, from its 19th-century foundations to the present.

**AS/HIST 3780 6.0 Asian Crossroads: Southeast Asia Since the 17th Century.** Southeast Asia (Burma, Cambodia, Indonesia, Laos, Malaysia, Philippines, Singapore, Thailand and Vietnam) has been a crossroad for trade and cultural interchange for centuries. The course traces the economic, political, social and cultural development of the region from 1600 to the present.

*Cross-listed to: AK/HIST 3109B 6.0.*

**AS/HIST 3785 6.0 Science, Technology and Society in Chinese History.** This course examines the development of science and technology in China from the Classical period to the 20th century, in the context of the economic, social, political and intellectual history of China and Eastern Asia.

*Cross-listed to: AS/SOSC 3785 6.0.*

**AS/HIST 3791 6.0 The Islamic Gunpowder Empires.** This course studies, in a comparative fashion, the rise, consolidation and decline of the three major early modern Islamic empires (the Ottoman Turks, the Safavids of Persia and the Mughals of India) between 1500 to 1800.

**AS/HIST 3792 6.0 The Middle East since 1800.** This course surveys the main political events, social institutions, cultural and economic developments, as well as various aspects of everyday life in the Middle East from 1800 to the present.

**AS/HIST 3809 6.0 History of the Christian Church: Beginnings to the Reformation.** Stages of the developing Christian church from its origins in apostolic times to the late-Middle Ages. Topics include personalities, institutional

structure, leadership and rules, thought, education, liturgical and spiritual life, pastoral care, and the church in the secular world.

*Cross-listed to: AS/HUMA 3780 6.0.*

**AS/HIST 3810 6.0 History of the Christian Church: Reformation to the Present.** The organizations and associations developed by the Christian community, and the precepts by which the churches have governed their members and justified their own validity since the Reformation.

*Cross-listed to: AS/HUMA 3781 6.0.*

**AS/HIST 3820 3.0 Welfare States in Comparative Perspective.** This course takes a comparative approach toward the formation, theories and administration of welfare states in Europe and North America. Special attention is also paid to recent research on women's role in the creation of western welfare states and to the gendered nature of social policy.

**AS/HIST 3840 3.0 Canadian-American Relations in the 20th Century.** The relations of Canada and the United States in the 20th century, with special attention to the impact of war and cold war and to economic and political questions.

**AS/HIST 3860 6.0 Modern History of the Jews.** A survey of Jewish history from the breakdown of traditional society in the 18th century until the present. The focus is on the Jews of Europe and the major offshoots of Jewish Europe, Israel and North America.

**AS/HIST 3870 6.0 The Historical Development of Technology Since 1800 and its Impact.** Technology's development and its interactions with North Atlantic society since the Industrial Revolution, including innovation processes, idea transfer, statistics and "precision," transportation and communication improvements, urbanization, mass production/consumption, and the computer. Interwoven themes: differential acceptance of innovation, technological "forecasting."

**AS/HIST 3880 6.0 Medicine and North American Society in Historical Perspective.** Explores North American social and cultural responses to disease. It offers a critical, historical evaluation of the ways in which science accorded medicine a new intellectual and institutional status that transformed explanations for disease and patterns of healing/caregiving.

*Cross-listed to: AS/SOSC 3090 6.0.*

**AS/HIST 3890 3.0 Reading Landscapes Through Time.** The course focuses upon the analysis of changing geographic landscapes with particular reference to the United Kingdom, the United States, and, to a lesser extent, Canada, in order to draw some general conclusions about processes responsible for landscape change.

*Cross-listed to: AS/GEOG 3080 3.0.*

*Degree credit exclusions: AS/GEOG 3080 6.0, AS/HIST 3890 6.0.*

**AS/HIST 3930 6.0 Special Topics in History.** From time to time lecture courses or colloquia may be offered on a single-year basis. See the supplementary calendar for details.

#### IV. AS/HIST 4000 6.0 Honours Essay

*Note: Open only to honours candidates in History after the completion of 84 credits and with the permission of the department. Candidates should confer with the Chair before the end of the preceding academic session.*

#### V. Honours Seminars

*Note: These seminars enable small groups of Honours students to concentrate on the close investigation of specific historical problems. These courses usually meet as two-hour weekly sessions. Open to honours students in History after the completion of 48 credits and to others only with the permission of the department. Admission to any seminar requires written permission of the instructor. Because these courses are offered in rotation, not all are available in any given academic session. Consult each year's supplementary calendar for more detailed descriptions of the seminars then offered.*

**AS/HIST 4050 6.0 Colloquia in History.** The course provides an advanced-level study of the critical issues of a clearly defined problem or theme in a chosen period of history. Each year several sections of this course may be offered on a variety of topics. For details, see the department's annual supplemental calendar.

**AS/HIST 4100 6.0 Selected Problems in Israelite History.** Problems in the determination of the international relations of the Israelite states in the Iron Age. Sources, written and unwritten, from Israel, Assyria, Babylonia, Egypt and Israel's smaller neighbours are examined in the course of these investigations.

**AS/HIST 4120 6.0 Problems in the History of Ancient Greece.** Selected topics in one or more areas of concentration in the history of ancient Greece.

**AS/HIST 4130 6.0 Problems in Roman History.** Selected topics in one or more areas of concentration in the history of ancient Rome.

**AS/HIST 4140 6.0 Problems in Hellenistic History.** Selected topics in one or more areas of concentration in the history of the Mediterranean world of Alexander the Great and his successors.

**AS/HIST 4150 6.0 Topics in Ancient Social History.** The course examines in a seminar format a topic in comparative Ancient Social History. In any given year one or more courses may be offered under this rubric. A full description of each appears in the Department of History's mini-calendar.

**AS/HIST 4200 6.0 Culture and Society in Medieval Europe.** Relationships between important works of medieval literature and the society that produced them.

**AS/HIST 4220 6.0 Iconological Methods for Medieval Study.** Visual imagery in the Middle Ages was self-consciously conceived as a language, in a semiotic frame of meaning with cultural references and for social purposes. This seminar teaches iconological methods of historical analysis which enable scholars to read the "language of the visual"; it concludes with a methodological critique of the historiography of iconology.

*Cross-listed to: AS/HUMA 4735 6.0 and FA/VISA 4930 6.0.*

**AS/HIST 4225 6.0 Church, Mosque and Synagogue: Jews, Muslims and Christians in Medieval Spain.** This course explores the contours of Christian-Muslim-Jewish "coexistence" in medieval Spain, focusing on religious and social themes. Topics include conversion, cross-traditional intellectual stimuli, "sacred violence," and positive images of the religious other.

*Cross-listed to: AS/HUMA 4000V 6.0.*

**AS/HIST 4240 6.0 Human Economy and Natural Environment in Preindustrial Europe.** Interactions between Europeans and their environment in the context of economic development and daily life from late classical antiquity to the 1700s. Topics may include attitudes toward nature, human disease, agricultural and pastoral ecosystems, energy use, woodlands and aquatic resources.

**AS/HIST 4250 6.0 Mediterranean Societies 1500-1620.** A study of the structure of society which looks to trial transcripts, to social history and to the modern anthropology of that inland sea to explore patterns of belief, of values and of public and private behaviour.

**AS/HIST 4260 6.0 Topics in Early Modern European Social and Cultural History.** This course examines in seminar format topics in early modern European social and cultural history. In any given year one or more courses may be offered under this rubric. A full description of each will appear in the Department of History's mini-calendar.

**AS/HIST 4310 6.0 The French Revolution.** A close study and review of the Revolution, in the light of the fresh questions raised in recent books and articles.

**AS/HIST 4320 6.0 Topics in French History.** Analysis of the interaction of social structure and change, ideas and ideology, and state policy over three centuries in the leading power of continental Europe.

**AS/HIST 4330 6.0 Selected Issues in the History of Modern Germany.** An examination of major themes in 19th- and 20th-century German history. Emphasis is placed on conflicting interpretations and methodological differences.

**AS/HIST 4340 6.0 War and Peace: European Diplomacy 1800-1914.** This course examines the problems faced by major European states collectively from the Napoleonic wars to the First World War. It examines instances when collective action succeeded or failed in preventing or ending wars and imposed agreements.

*Degree credit exclusion: AS/HIST 4930C 6.0.*

**AS/HIST 4350 6.0 European Thought in Crisis: The Shape of European Thought in the Early 20th Century.** The transformation of basic assumptions in several intellectual and aesthetic disciplines in European thought from 1870 through World War I.

**AS/HIST 4360 6.0 Europe Between the Wars, 1918-1939.** Problems such as political ideologies, militarism, economic instability, youth movements, and class roles in modernization, studied comparatively across frontiers wherever possible.

**AS/HIST 4370 6.0 East European Nationalism and Independence.** The development of national consciousness, historical awareness, national literature and the continuing struggle for independent identity in ethnic groups within east European empires from the 10th century to the present.

**AS/HIST 4380 6.0 Selected Problems in Modern Russia.** Issues which may be discussed include developments since 1861 leading to the revolutions of 1917 and their results.

**AS/HIST 4410 6.0 Science and Religion in Victorian England.** An examination of scientific and religious ideas in Victorian England, with emphasis on Darwin.

**AS/HIST 4420 6.0 Great Britain in the 20th Century.** An examination of selected themes in British history during the 20th century.

*Degree credit exclusion: AS/HIST 4420 6.0 taken previously.*

**AS/HIST 4440 6.0 Land and Power in Early Modern England.** Agrarian England in the 17th and 18th centuries with emphasis on the structure of rural society, the relationship between landholding and political power, and the links between agricultural and industrial change.

**AS/HIST 4450 6.0 Themes in 18th-Century British Social History.** Social change and state policy in a maturing capitalist order dominated by a landowning aristocracy.

**AS/HIST 4500 6.0 Canadian Environmental History.** This seminar studies all the interactions that societies in the past have had with the non-human world, as well as the dynamic interrelationships between culture and nature in a Canadian setting from the first European contact to the present.

**AS/HIST 4505 6.0, Canadian Labour and Immigration History.** The growth and development of the trade union movement and the impact on it of immigration and other policies of the Canadian government.

*Cross-listed to: GL/HIST 4220 6.0.*

**AS/HIST 4510 6.0 Social Reform Movements in 19th-Century Canadian History.** The analysis of reform activity, particularly in Ontario, stressing penology, mental health, public charity and public welfare.

**AS/HIST 4511 6.0 20th-Century Canadian Social History.** This course examines the changing social life of Canadians from the turn of the century to the 1950s. Themes addressed include economy, family, work, ethnicity, education and popular culture.

**AS/HIST 4515 3.0 The Exploration and Mapping of Canada to 1820.** Exploration and mapping are inseparable; the former is the purposeful seeking, and the latter is the proof, of geographical discovery. The course traces the gradual exploration of Canada and its graphical portrayal from John Cabot (1497) until the early 19th century, when the country's outline became largely known.

*Cross-listed to: AS/GEOG 4050 6.0.*

**AS/HIST 4520 6.0 The Persistence of Nationalism in Quebec.** A study of nationalism in Quebec from Louis-Joseph Papineau to René Lévesque, with particular emphasis on the ideas and politics of the period. A reading knowledge of French is desirable.

**AS/HIST 4530 6.0 The Development of Toronto.** Toronto from its earliest beginnings to recent times: population increase, social change, economic development, metropolitan dominance, religion and political life of the city.

**AS/HIST 4540 6.0 Selected Topics in Western Canadian History.** Examines themes in the economic, political and social history of the Canadian West, 1850-1970. Themes include the roots of western regionalism; women, work and family on the Western Canadian "frontier;" and the evolution of Western social institutions.

**AS/HIST 4550 6.0 Ontario in the 20th Century: The Making of a Study Modern Society.** A study of the Ontario community and the influences, social, political and economic, which shaped its growth in the post-Confederation years.

**AS/HIST 4560 6.0 Canadian Political Parties.** The evolution and structure of political parties in Canada since Confederation, and of the social and economic forces which shaped their development.

**AS/HIST 4570 6.0 Canada in War and Peace, 1911-1951.** The way Canadian political parties and institutions responded to the problems posed by the Great War, the inter-war causes and course of the Depression in the various regions of Canada; its economic and social impact; and the political response — parties and policies — at the national and provincial levels.

**AS/HIST 4580 6.0 The Uses of the Past: Public Memory and Popular Culture in Canada.** This research seminar explores the ways in which history has been used to develop national consciousness, group identities and commercial opportunities in Canada, and how over time both the substance and the construction of public memory have changed.

**AS/HIST 4610 6.0 Political Power in American Society.** Examines, in terms of modern political theory, the shifting distribution of political power between the colonial period and the late 19th century.

**AS/HIST 4620 6.0 Comparative Political Movements in 20th-Century US History.** This course conducts comparative analyses of major political movements that have transformed the United States in the 20th century. The focus is on African American, women's, lesbian/gay and conservative movements.

**AS/HIST 4640 6.0 Organizing the United States for War.** How the United States has organized for war in the 20th century, focusing on the two world wars, Korea and Vietnam.

**AS/HIST 4660 6.0 The American Revolution: Origins and Aftermath.** Origins of the American Revolution, the period of Confederation and the adoption of the Constitution.

**AS/HIST 4670 6.0 The American Novel as an Historical Document.** Examines a series of literary works and emphasizes the ways in which they reflect the changing nature of United States society.

**AS/HIST 4680 6.0 History of Communication in the United States.** The mutual interactions of an expanding system of communication since c. 1750 with economic, social and political developments. Roads and canals, railroads, telegraph, newspapers, radio, movies, the automobile and airplane, computers and satellites.

**AS/HIST 4690 6.0 Race and Politics in America Since World War II.** This course examines the different forms of black political action in the United States since World War II and assesses the effectiveness of each in reducing racial discrimination and poverty.

**AS/HIST 4700 6.0 The Partition of Africa.** The European occupation of Africa, with special emphasis on African responses to European expansion and to the establishment of colonial rule.

**AS/HIST 4710 6.0 The Last Years of Slavery.** Slavery, plantation life and the struggle for freedom in the British West Indies, 1770-1865.

**AS/HIST 4720 6.0 Post-Emancipation Societies in the Americas.** Compares the economic, social, political and cultural problems encountered by the black and

coloured ex-slaves of the Caribbean, the American South and Brazil from the 1830s to the 1920s.

**AS/HIST 4740 6.0 Chinese Rural Society.** The transformation of Chinese rural society in the 19th and 20th centuries.

**AS/HIST 4750 6.0 Backwardness and Revolution in Latin America.** Problems of underdevelopment and revolution in Latin America with emphasis on specific revolutions, such as those of Cuba and Chile, and selected topics related to underdevelopment, such as the role of multinational corporations and the problems of marginalism.

*Degree credit exclusion: AK/HIST 4109A 6.0.*

**AS/HIST 4755 6.0 Cultural and Social History of Colonial Latin America.** Comparative analysis of the cultures and societies of Colonial Latin America; discussion of the historical process of reinventing, reinterpreting and negotiating the colonial reality.

**AS/HIST 4760 6.0 War and Peace in East Asia: The Second World War.** The experience of the Second World War and its aftermath in China, Japan and the larger Pacific region, including the rise of Communism in China and the transformation of Japan during and after the American occupation.

**AS/HIST 4770 6.0 The African Urban Past.** This course examines Africa's urban past. It first concentrates on precolonial cities as centres of political organization, religious learning, regional and long-distance trade and, thereafter, on urban health, crime, women, crowds, squatters, workers and political movements during the colonial and post-independence eras.

**AS/HIST 4800 6.0 The Science of Society: Social Thought in North America, 1890-1940.** An interdisciplinary analysis of the intellectual, cultural and social contexts which contributed to the rise of the social sciences and the reorganization of the liberal arts in North America during the period 1890-1940.

*Cross-listed to: AS/HUMA 4220 6.0.*

**AS/HIST 4810 6.0 Minds and Matters in Victorian Culture.** Through a reading of the contemporary scientific literature on materialism, the mind and the economy, this course examines Victorian debates on science and its application to pressing moral and social problems.

*Cross-listed to: AS/HUMA 4225B 6.0.*

**AS/HIST 4900 3.0/4900 6.0 University of Toronto Seminars.**

*Note: Open to Honours students with the permission of both departments.*

Students should consult the supplementary calendar for the seminars being offered by the Department of History at the University of Toronto this year.

**AS/HIST 4930 6.0 Special Seminar in History.** From time to time special seminars may be offered. See the supplementary calendar for details.

**AS/HIST 4990 3.0/4990 6.0 Supervised Reading and Research.** This course is intended to enable students of exceptional ability to pursue individual fields of interest not otherwise provided for by the regular curriculum.

*Note: Open to History majors after completion of 84 credits with the permission of the Chair and with the agreement of a member of the department who will act as supervisor. Students are advised to familiarize themselves as soon as possible with the departmental regulations governing AS/HIST 4990 6.0. Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

**AS/HIST 4991 3.0/4991 6.0 Advanced Seminar in History.** Fourth-year students with an average of B+ in History courses may enrol in a 5000-level seminar with permission from the instructor. Consult the Graduate Program calendar for available courses.

## Humanities – Arts

### Division Office:

203 Vanier College, 416-736-5158

### Web Address:

[www.yorku.ca/dept/human](http://www.yorku.ca/dept/human)

### Chair of the Division:

D. Freake

### Professors:

G. Butler, M.G. Brown, S. Eisen, E. Faas, M. Fichman, A. Haberman, B. Lightman, H. Parry, L.B. Polka, S. Mason, W.J. Whitla

### Associate Professors:

R. Adolph, G. Argyle, R. Arthur, C. Carpenter, R. Chace, M. Clark, E. Cohen, T.V. Cohen, D. Cooper-Clark, M. Corrigan, C. Ehrlich, J. Edmondson, D. Freake, M. Gerwurtz, T. Goossen, S. Horowitz, T. Hyun, M. Kadar, S. Katz, N.M. Lary, M. Lockshin, J. Paper, J. Rehner, J. Rives, N. Rowen, R. Schattner, R.S. Schneider, J. Scott, A. Shteir, J. Stuckey, S. Swan, P.R. Swarney, S. Tanenzapf, P. Taylor, R. Teleky, D. Trotman, S. Warwick, R. Walcott, M.J. Webber, W.E. Westfall, B. Zelechov

### Assistant Professors:

K. Anderson, A. Buturovic, P. Giordan, E. Lawee, B. Lee, D. Orr, A. Pomson, E. Ramsay, P.J. Steigerwald, N. Traill

*"Nothing human is alien to me." (Terence)*

Traditionally, the "humanities" include such fields as literature, philosophy, history, art, architecture, music and religion, and it is characteristic of courses offered in the Division of Humanities that they embrace more than one of these fields or disciplines. In short, the Division of Humanities provides a space for interdisciplinary studies in the area of humanities.

Further, it is characteristic of courses in the Division of Humanities that they pay special attention to what is unique, particular and unpredictable in human experience. They are concerned with all aspects of human creativity and thus with cultural expressions of a wide range. Finally, while questions of "value" are deliberately (and appropriately) set aside in most scientific investigations, questions of "value" — aesthetic, moral, religious or social — are focal in a Humanities course. In other words, it is part of the concern of courses in the humanities to identify the values implicit in a particular society, a piece of literature, a social theory or a work of art.

Not all courses are necessarily offered in all years. For information about specific offerings students should consult the supplemental calendar available from 203 Vanier College.

*Note: for specific requirements of programs offered by this division, please consult the Faculty of Arts "Programs of Study" section.*

## Courses in Humanities

The following Humanities courses may count towards a major/minor in Humanities and may also satisfy Faculty of Arts General Education Requirements. The exceptions are Creative Writing courses AS/HUMA 3640 6.0, AS/HUMA 3645 6.0, AS/HUMA 4630 6.0 and AS/HUMA 4640 6.0. Enrolment in 3000-level Humanities courses may require the fulfillment of one of the following requirements: a previous Humanities course or permission of the instructor. 3000-level Humanities courses with either of these prerequisite requirements will be clearly identified in the divisional supplemental calendar. Failure to satisfy the listed prerequisite requirement will result in de-enrolment from the course.

*Note: For a list of Atkinson courses which are degree credit exclusions, students should consult the Degree Credit Exclusion/Equivalent Tables in the Lecture Schedule or the departmental/divisional supplemental calendars.*

## 1000-Level Courses

Selected 1000- and 2000-level courses offered through the Division of Humanities are a part of the Faculty of Arts Foundations program. These courses have a nine-credit value and are affiliated with one of the Arts Colleges. As a part of the General Education requirement of the Faculty of Arts, these courses introduce students to interdisciplinary study and emphasize critical thinking, reading and writing skills at the university level.

## Western Culture

**AS/HUMA 1100 9.0 Worlds of Ancient Greece and Rome.** A study of the classical world with a view to understanding the origin and evolution of some of the literary, philosophical and political ideals of ancient Greece and Rome. Materials for this study will be drawn from Greek and Roman literature in translation, with illustration from the plastic arts. (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/HUMA 1100 6.0.*

**AS/HUMA 1105 9.0 Myth and Imagination in Greece and Rome.** An introduction to ancient and modern myths and theories about myths and mythology in comparative perspectives and their influences on modern literature and art. (This course is affiliated with Stong College.)

*Degree credit exclusion: AS/HUMA 1105 6.0.*

**AS/HUMA 1110 9.0 Greek and Biblical Traditions.** The stories, symbols and myths of Greek and Biblical literature have provided the basic images for Western society's interpretation of itself and its experience. An examination of Greek and Biblical traditions which inform personal and community life today. (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/HUMA 1110 6.0.*

**AS/HUMA 1120 9.0 Medieval Civilization.** An investigation of the culture of medieval western Europe, tracing its values, aesthetics and habits of perception. Plastic arts and architecture, epic, romantic and lyric prose and poetry, theology and historical documents illustrate forms of thought and expression. (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/HUMA 1120 6.0.*

**AS/HUMA 1130 9.0 The Renaissance.** The course explores the European Renaissance as a form of civilization. It treats literature, music, philosophy, religion, political theory and the plastic arts, and seeks to make clear the ideas, values and habits of mind which gave unity to an epoch in Western history. (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/HUMA 1130 6.0.*

**AS/HUMA 1160 9.0 The Enlightenment and Human Understanding.** A fundamental feature of the Enlightenment is the view that human experience is the foundation of gaining knowledge and truth. We focus on selected Enlightenment writers and thinkers in order to understand this approach to writing. (This course is affiliated with Vanier College.)

**AS/HUMA 1170 9.0 The Modern Age: Shapers and Definers.** The course introduces the student to some of the important shapers and definers of the Modern (Western) artistic and intellectual tradition, along with some of the movements and counter-movements that framed their work (Romanticism, Realism, Symbolism, Modernism etc.). (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/HUMA 1170 6.0.*

**AS/HUMA 1180 6.0 The Modern Mind.** Selected issues fundamental to the modern world the problem of knowledge, ideas of aesthetics, the nature of scientific investigation, religious values and ideals of the good society are examined.

## The Culture of the Americas

**AS/HUMA 1200 9.0 Contexts of Canadian Culture.** Topics illustrating the ways in which culture in Canada resembles and is different from other cultures. The emphasis is on the 20th century. Materials to be used include fiction,

poetry, folklore, the visual arts and various social and historical studies. (This course is affiliated with Stong College.)

*Degree credit exclusions: AS/HUMA 1205 6.0, AS/HUMA 1200 6.0.*

**AS/HUMA 1205 6.0 Exploring Canadian Culture.** This course emphasizes important theoretical approaches; Marxist, feminist, semiotic, for example, to the analysis of culture, with Canadian texts of many different kinds being examined for insights into the Canadian experience and how it has been understood.

*Degree credit exclusions: AS/HUMA 1200 9.0, AS/HUMA 1200 6.0.*

**AS/HUMA 1210 3.0 Exploring Canadian Culture: Beginnings to the First World War.** This course establishes the ideological, economic and political roots of the founding nations: aboriginal, French and English and the various other immigrant streams added later to this mix. This course will end with World War I and the concurrent global shift in power away from the British Empire.

*Degree credit exclusion: AS/HUMA 1205 6.0.*

**AS/HUMA 1211 3.0 Exploring Canadian Culture: The First World War to the Present.** This course examines the resulting from population amalgamations (the French-Canadian "question" and native land claims); Canada's emergence in a specific mid-Atlantic form, the replacement of traditional religious orientations with the values of commerce, the rise of women's equality, multiculturalism and globalization.

*Degree credit exclusion: AS/HUMA 1205 6.0.*

**AS/HUMA 1220 9.0 Introduction to Canadian Language and Culture.** This course develops the linguistic/academic skills of students from ESL backgrounds, using themes such as language and Communication, Culture and Identity, the Immigrant/Refugee Experience and Multiculturalism. A variety of course activities develop course themes and language proficiency. (This course is affiliated with Stong College.)

*Cross-listed to: AS/ESL 1000 9.0.*

*Degree credit exclusions: AS/HUMA 1220 6.0, AS/ESL 1000 6.0.*

*Note: This course is normally open only to students in their first academic session.*

**AS/HUMA 1300 9.0 The Cultures of Resistance in the Americas: The African American Experience.** This course examines oppression and the ways in which Afro-American, Amerindian and racially-mixed communities in the Caribbean, Latin America, Canada and the United States use cultural patterns – the oral tradition, religion and ethics – both to comment on that oppression and to express alternatives. (This course is affiliated with Founders College.)

*Degree credit exclusion: AS/HUMA 1300 6.0.*

**AS/HUMA 1320 6.0 Images of America.** An exploration of values, ideas and myths central to the dual experience of the United States as both actual society and western ideal. Literature, art and social and political commentary are used to study significant themes: Puritanism, the frontier, authority and dissent, ethnicity and race.

## Non-Western Cultures

**AS/HUMA 1400 9.0 Culture and Society in East Asia.** Introduction to traditional East Asian civilization by examining daily life in 18th-century Peking and Edo (Tokyo), and their rural hinterland. Topics include the physical setting, social distinctions and occupations, arts, and crafts, religion, literature and entertainment. (This course is affiliated with Founders College.)

*Degree credit exclusion: AS/HUMA 1400 6.0.*

## Studies in Themes and Values

**AS/HUMA 1500 6.0 Special Topics in Themes and Values.** In any given year other courses may be offered in this area. Information concerning these is available at the divisional office.

**AS/HUMA 1610 9.0 The Art of Writing.** A course on the nature and evolution of European, British and American writing through the modern period. (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/HUMA 1610 6.0.*

**AS/HUMA 1620 9.0 Archetypal Themes in Literature.** An interdisciplinary examination of those recurring patterns, narrative structures and images in Western culture which have the power to express (symbolize) our quest for meaning and values. Readings are selected from a broad range of cultures and eras in order to focus upon the dynamic persistence of these motifs and the variety of works in which they occur. (This course is affiliated with Stong College.)

*Degree credit exclusion: AS/HUMA 1620 6.0.*

**AS/HUMA 1630 9.0 Forms of Fantasy.** This course explores the development of fantasy in the Western imagination through a variety of interdisciplinary materials, with special emphasis given to the links between fantasy and culture, politics, marginality, and the articulation of unconscious desires. (This course is affiliated with Founders College.)

*Degree credit exclusion: AS/HUMA 1630 6.0.*

**AS/HUMA 1650 9.0 The Networked Imagination.** This course explores the technological determinants operating today on almost all cultural forms. The main theme of this course is how the nature of digital representation and communication affects the nature of literature, visual arts and music, altering not only the forms and content, but the roles of artist/author and their audiences. (This course is affiliated with Calumet College.)

**AS/HUMA 1810 6.0 Good and Evil.** A critical examination of significant ethical and religious themes in Western philosophy and literature from classical antiquity to the present. Special attention is given to the historical causes of and intellectual reasons for the current mood of ethical and religious scepticism.

**AS/HUMA 1820 6.0 Ideology and Morality.** What is moral action? How can conflicts between moral and political duties be resolved? When must people resist the state? The ways in which ideology shapes and distorts the perception of these questions receives special consideration.

**AS/HUMA 1830 6.0 Irrationality.** An attempt to explore various aspects of the irrational life, through a consideration of works which, in dealing with irrationality, throw light on questions of human values.

**AS/HUMA 1840 9.0 Existence, Freedom and Meaning: The Idea of Human in European Thought.** Major works of literature, philosophy, religion and science since the Renaissance are read and discussed in a search for the distinctively human. (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/HUMA 1840 6.0.*

**AS/HUMA 1850 6.0 The Bible and Modern Knowledge.** This course explores the relationships between the Bible and modern conceptions of knowledge. We illuminate some aspects of the close connections between Biblical values and the basic premises of modern knowledge by analyzing various books of the Bible and some modern commentary on the nature of knowledge.

**AS/HUMA 1905 9.0 Dangerous Visions, Brave New Worlds: The Science Fiction Culture and Our Scientific Age.** This course explores how the medium of science fiction has given cultural expression to changing attitudes towards modern science and technology. Topics include science fiction and the computer, relativity and quantum theory, religious belief, genetics and potential apocalypses. (This course is affiliated with Bethune College.)

**AS/HUMA 1910 9.0 Science and the Humanities: Nature and Human Nature.** This course investigates how scientific thinking about the place of human beings in nature involves humanistic thinking about the place of nature in being human. (This course is affiliated with Bethune College.)

*Degree credit exclusion: AS/HUMA 1910 6.0.*

**AS/HUMA 1915 9.0 Animals and the Literary Imagination.** From antiquity to the present, the animal world has been strongly reflected in Western literature. The course presents a cross-cultural examination of the depiction of animals in Western literature and culture (especially the English, North American, German and Russian traditions). (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/HUMA 1500C 6.0.*

**AS/HUMA 1920 6.0 Communications.** This course seeks to develop an understanding of the informational organization of our environment and of the essential difference between the product and the process of communication. We shall use materials drawn from the study of language, media, information theory, the philosophy and history of science and technology, interpersonal communication, cybernetics, general system theory.

**AS/HUMA 1925 6.0 Introduction to Traditional and Popular Culture.** This course analyses the form, meaning and content of traditional and popular levels of culture, and discusses the respective roles of each in the human environment. Its focus is on face-to-face oral human communication, as well as on communication carried out through the popular mass media.

*Degree credit exclusion: AS/HUMA 1500E 6.0.*

**AS/HUMA 1950 9.0 Concepts of "Male" and "Female" in the West.** An examination of the origins of and the interrelationships among, gender, male and female concepts and roles through myth, literature, art and artifacts from various Western cultures, past and present. (This course is affiliated with McLaughlin College.)

*Degree credit exclusion: AS/HUMA 1950 6.0.*

**AS/HUMA 1960 9.0 Women, the Family and Children in Europe, 1150-1800.** This course examines ideas about, and practical realities concerning, women, the family and children in Europe, 1150-1800. (This course is affiliated with Founders College.)

*Degree credit exclusion: AS/HUMA 1960 6.0.*

**AS/HUMA 1970 9.0 Worlds of Childhood.** An exploration of childhood as an aspect of human experience represented in many forms in various cultures over time. (This course is affiliated with Stong College.)

*Degree credit exclusion: AS/HUMA 2215 6.0.*

## 2000-Level Courses

### Studies of Culture

**AS/HUMA 2000 3.0/2000 6.0 Special Topics in Studies of Culture.** In any given year other courses may be offered in this area. Information concerning these is available at the divisional office.

**AS/HUMA 2100 6.0 The World of Ancient Greeks.** A study of the culture of ancient Greece at various high points in its development. Areas of human artistic endeavour to be explored include sculpture, painting, architecture and literature.

**AS/HUMA 2105 6.0 Roman Literature and Culture.** An introduction to Roman literature and culture, c. 200 BC to AD 200. Emphasis is placed on the literature, art and architecture of the Romans and on the impact of Roman culture on those peoples under Roman rule.

**AS/HUMA 2110 9.0 Egypt in the Greek and Roman Mediterranean.** An examination of Egypt and Egyptians in the imagination and History of the cultures of the Greek and Roman Mediterranean. (This course is affiliated with Vanier College.)

**AS/HUMA 2120 6.0 Epic and Romance in Medieval Society.** A close study of representative medieval European epics, sagas and adventure romances and the manner in which they embody, transmit and revise the social and cultural norms of the society in which they were produced.

**AS/HUMA 2130 6.0 Themes in Renaissance Humanism.** This course examines a theme of particular richness in the Renaissance, focusing mainly on works of a literary and philosophical nature. Classical and medieval influences are explored. Attention may be paid to Renaissance painting, sculpture and architecture.

**AS/HUMA 2140 6.0 Renaissance and Baroque Art and Architect.** This course examines the art of Northern and Southern Europe from the early 15th century to the mid-18th century.

*Cross-listed to: FA/VISA 2560 6.0.*

**AS/HUMA 2150 6.0 Sense and Sensibility in the 18th Century.** A study of 18th-century culture which stresses the values of Enlightenment Civilization and the transition to Romantic Thought. Themes to be examined include the nature of humanity, of society and of morality, the idea of progress, concepts of education, women and the idea of the family. Emphasis is placed on contemporary works such as novels, treatises, paintings and music.

**AS/HUMA 2160 9.0 Romanticism and Its Legacy.** A study of Romanticism and its aftermath with emphasis on its values as expressed in the arts, using historical, literary, musical and philosophical texts and works from the visual arts. (This course is affiliated with Stong College.)

*Degree credit exclusion: AS/HUMA 2160 6.0.*

**AS/HUMA 2170 6.0 Modern Art: 1750 to the Present.** A comprehensive survey of major artists and monuments from ca. 1780 to ca. 1945 with special emphasis on European painting and sculpture.

*Cross-listed to: FA/VISA 2620 6.0.*

**AS/HUMA 2180 6.0 The End of an Era and the Beginning of Modernism, 1870-1914.** The course deals with the relationship between social change and the transition to Modernism in literature and the arts from 1870 to 1914.

**AS/HUMA 2190 9.0 Germany Through the Ages: Culture and Society.** This course introduces students to the culture of Germany and the German-speaking countries from a North American perspective. The course takes an intercultural and interdisciplinary approach to key aspects of the literary, artistic, political and social history of these countries. (This course is affiliated with Calumet College.)

*Degree credit exclusion: AS/HUMA 2190 6.0.*

**AS/HUMA 2310 9.0 An Introduction to Caribbean Studies.** An introduction to the major cultural characteristics of the contemporary Caribbean through an examination of the outstanding writers, artists and scholars of the region. The course is pan-Caribbean in perspective and the material is thematically arranged and includes scholarly and literary works, films and music. (This course is affiliated with Founders College.)

*Degree credit exclusion: AS/HUMA 2310 6.0.*

**AS/HUMA 2320 9.0 Ideas of America: The Cultures of North America.** This course undertakes a study of major artistic, historical, philosophical and/or political texts by and about North Americans. (This course is affiliated with Stong College.)

*Degree credit exclusion: AS/HUMA 2320 6.0.*

**AS/HUMA 2410 6.0 Chinese Art, Poetry and Religion.** Introduction to aspects of the culture and religion of China, emphasizing the influence of Taoism and Ch'an Buddhism on the lifestyles of the elite and on aesthetics as reflected in poetry, landscape painting, ceramics, music and garden architecture.

**AS/HUMA 2420 9.0 Introduction to Korean Culture.** This course offers an introduction to the study of Korean culture through a historical survey of literary, social, religious and political trends from ancient times to the present. (This course is affiliated with Founders College.)

**AS/HUMA 2440 9.0 India: Life, Culture and the Arts.** This course examines contemporary life and society in India as it is going through a process of all round development, reintegrating traditions and responding to new influences. (This course is affiliated with Founders College.)

*Degree credit exclusion: AS/HUMA 2000A 6.0.*

#### Studies of Themes and Values

**AS/HUMA 2500 6.0 Special Topics in Studies of Themes and Values.** In any given year other courses may be offered in this area. Information concerning these is available at the divisional office.

**AS/HUMA 2610 6.0 Perspectives on Literature.** An exploration of the relationship between literature and other humanistic disciplines such as philosophy, history, psychology, politics, visual arts. Insights and methods of these approaches in conjunction with selected cross-cultural literary works will be studied.

**AS/HUMA 2640 9.0 Modes of Fantasy.** An examination of the various forms, themes and functions of fantasy, this course includes consideration of speculative fiction, utopian literature, children's literature, social and psychological studies, folklore and mythology, and the visual arts. (This course is affiliated with Founders College.)

*Degree credit exclusion: AS/HUMA 2640 6.0.*

**AS/HUMA 2670 9.0 Film and Literature.** The nature of film is explored through detailed comparison with fiction and drama. The different possibilities of drama, narrative, and language in film and in literature are emphasized. (This course is affiliated with Stong College.)

*Degree credit exclusions: AS/HUMA 2670 6.0, FA/FILM 2711 6.0.*

**AS/HUMA 2680 9.0 Early Times: Literature and the Imagination of the Child.** The course is centred, in the reading and discussion of literature written for, appropriated by, or in a particular sense related to children. (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/HUMA 3650 6.0.*

**AS/HUMA 2740 6.0 Film, Television and Society.** This course examines the interrelationship between film and television and the societies in which they are produced and consumed with attention to the social relations and ideological and political characteristics of contemporary societies and with an introduction to contemporary criticism which has analyzed these media.

*Cross-listed to: FA/FILM 2401 6.0.*

**AS/HUMA 2761 9.0 Italian Cinema and Society: From Neorealism to Postmodernism, 1945 to the Present.** The course focuses on 12 of the most significant films since World War II in the context of the radical changes that have taken place in Italy from the fall of Fascism to the present, and as critical statements on the phenomena connected with the rapid transformation of Italian society: industrialization and the "economic miracle", urbanization, the crisis of traditional values, and postmodern fragmentation. (This course is affiliated with Founders College.)

*Cross-listed to: AS/IT 2761 9.0.*

**AS/HUMA 2800 9.0 Introduction to the Study of Religion.** This course places the classic expressions of religion in their social and cultural contexts. It employs different humanistic and social science disciplinary tools and deals with important methodological questions in the study of religion. (This course is affiliated with Vanier College.)

*Cross-listed to: AS/SOSC 2600 9.0.*

*Degree credit exclusions: AS/HUMA 2800 6.0, AS/SOSC 2600 6.0.*

**AS/HUMA 2810 6.0 The Hebrew Bible.** An introduction to scholarly treatment of the Hebrew Bible (Old Testament) in translation. Students deal with the text in the context of issues in the history of religion and the history of ideas. The relationship of Biblical text to its environment is a focus of attention.

**AS/HUMA 2815 9.0 Islamic Traditions.** The course examines the beliefs, rituals, doctrines and teachings that have constituted the Islamic tradition from its inception until the present. (This course is affiliated with Vanier College.)

**AS/HUMA 2830 9.0 The Founders of Christianity.** An introduction to the literature and history of the early Christian communities in Palestine, Syria, Asia Minor, Greece and Rome. The varieties of early Christian thought and practice are examined in terms of their religious, cultural and political contexts. (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/HUMA 2830 6.0.*

**AS/HUMA 2840 6.0 Perspectives on Contemporary Moral Issues.**

Contemporary moral problems are explored with reference to religious and secular concepts and images of what is genuinely human. Using imaginative literature as well as theoretical analyses, this course examines specific issues of personal and social morality.

**AS/HUMA 2850 9.0 The Jewish Experience: Symbiosis and Rejection.** Jewish-Gentile relationships through the ages as an exercise in acculturation. The course will consider Hellenistic, medieval and modern periods, with special emphasis on modern Europe and Israel. (This course is affiliated with Vanier College.)

*Degree credit exclusions: AS/HUMA 2850 6.0, AS/HUMA 2851 3.0, AS/HUMA 2852 3.0.*

**AS/HUMA 2900 9.0 Introduction to Creative Writing.** This course is an introduction to the writing of poetry and prose fiction. The main focus of the course will be the student's own writing. Students will be expected to satisfy a number of assignments relating to both fiction and poetry. (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/EN 2900 6.0.*

**AS/HUMA 2915 9.0 Darwin, Einstein and the Humanities.** An intensive examination of how Darwin and Einstein's scientific thought both shaped and was shaped by their respective intellectual, cultural and social context. (This course is affiliated with Bethune College.)

**AS/HUMA 2920 9.0 Spreading the Word: Knowledge, Technology and Culture.** This course explores technologies of knowledge in social and cultural context, examining histories of classification, ethical and political concerns about information, debates over artificial intelligence and artificial life, and the social impact of technologies like the book, telegraph and computer. (This course is affiliated with Bethune College.)

**AS/HUMA 2930 9.0 On Woman.** This course explores the social, political and economic institutions which shape women's lives, and introduces key theoretical approaches within feminist scholarship to investigate specific feminist issues in areas such as women's writing, visual representations, family, race, sexuality, women and work. (This course is affiliated with Founders College.)

*Cross-listed to: AS/AK/GL/WMST 2510 9.0, AS/SOSC 2180 9.0.*

*Degree credit exclusions: AS/SOSC 2180 6.0, AS/HUMA 2930 6.0, GL/WMST 2950 6.0, GL/SOSC 2950E 6.0 GL/SOSC 2950F 6.0, GL/WMST 2950 6.0, AK/WMST 2000 6.0.*

**AS/HUMA 2960 9.0 The Body in Western Culture.** From an interdisciplinary perspective this course explores the attitudes of Western culture to the body and to entities such as soul, spirit and mind which have been contrasted with it. (This course is affiliated with McLaughlin College.)

**AS/HUMA 2990A 9.0 Aspects of Italian Culture.** This course aims to present and analyze some of the most interesting themes underlying the development of Italian intellectual life from the 14th century to the 19th century. (This course is affiliated with Founders College.)

*Cross-listed to: AS/IT 2751 9.0.*

*Degree credit exclusions: AS/HUMA 2990A 6.0, AS/IT 2750 6.0, AS/IT 2751 6.0.*

**AS/HUMA 2990D 6.0 Russian Culture: Continuity and Conflict.** This course examines Russian culture in an historical and social context focusing on Kievan Rus', the rise of Muscovy, the expansion of the Russian Empire and its revolutionary mutation into the Soviet Union and the post-Soviet contemporary scene.

*Cross-listed to: AS/HIST 2310 6.0, AS/RU 2750 6.0.*

*Prerequisite: No knowledge of Russian required.*

## 3000-Level Courses

### Studies of Culture

**AS/HUMA 3000 3.0/3000 6.0 Special Topics in Studies of Culture.** In any given year other courses may be offered in this area. Information concerning these is available at the divisional office.

**AS/HUMA 3100 6.0 Greek Drama and Culture.** A survey of ancient Greek drama in translation. The plays are looked at mainly in terms of structure, of religious thought and of political expression.

**AS/HUMA 3110 6.0 Roman Culture and Society.** The course examines literature, art and architecture in its social and cultural context within a specified period of Roman history. The course may focus on either the late Republic, the ages of Augustus, Nero or the Trajan.

**AS/HUMA 3115 6.0 Myth in Ancient Greece: Texts and Theories.** This course examines Greek myths of gods and heroes in their social, religious and historical contexts through close reading of primary texts and visual representations and through analysis of modern comparative, psychoanalytical and structuralist theories.

**AS/HUMA 3120 3.0 Topics in Major Figures in Their Ages.** Major figures are set within the context of their ages, using materials which may be drawn from the arts, literature, historical documents and philosophical and religious thought.

**AS/HUMA 3140 3.0 Topics in Period Studies.** A study of key aspects of major eras which have shaped the modern world, using materials which may be drawn from the arts, literature, historical documents and philosophical and religious thought.

**AS/HUMA 3150 3.0 Problem in the Myth, Language and Culture of the Ancient Near East.** The purpose of this course is to introduce the students to the culture of an ancient Near Eastern civilisation through an introduction to its language and selected literature.

**AS/HUMA 3160 6.0 Architects of Modern Thought.** A study of selected major figures who have shaped the modern world, using materials which may be drawn from the arts, literature, historical documents and philosophical and religious thought.

**AS/HUMA 3210 6.0 The Scene of the Crime – Criminality and Modern Culture.** A study of the production of ideas of criminality in Western thought since 1850 to the present, within the context of the social, cultural, political, economic and legal history of the modern age.

**AS/HUMA 3215 6.0 Evolving Images of the Vampire.** This course explores the evolution of vampire figures in Western culture over the past 200 years. It traces their movement from the margins to the centre of cultural concern and looks at recent deconstructions of vampire stereotypes.

*Degree credit exclusion: AS/HUMA 3140C 3.0.*

**AS/HUMA 3310 6.0 The Writer and Folk Culture in the Afro-Caribbean.** This course examines aesthetic and expressive aspects of Afro-Caribbean folk culture and explores both the ways in which, and the reasons that, West Indian novelists, dramatists and poets have used this culture in their literary works.

**AS/HUMA 3320 6.0 Topics in Postcolonial Thought: A Caribbean Perspective.** By focusing on influential postcolonial theorists, this course examines 20th-century attempts to rethink the Western humanistic tradition from the point of view of colonized and formerly colonized peoples.

**AS/HUMA 3340 6.0 From Alien to Archetype: Jews in North America.** The Jewish experience in the American "melting pot" and the Canadian "mosaic" from colonial times to the present, as seen through an examination of the historical record and works of the imagination by and about Jews.

**AS/HUMA 3350 6.0 Modernism and Anti-Modernism in American Culture.** A study of American culture and society in the late-19th and early-20th centuries, focusing on the conflict in ideas, aesthetics and values fostered by industrial and technological change.

**AS/HUMA 3360 6.0 Victorian Culture and Society.** A study of institutions, ideas and cultural movements in a particular year or decade using both primary and secondary sources from a variety of disciplines.

*Cross-listed to: AS/HIST 3440 6.0.*

**AS/HUMA 3370 6.0 Writing Lives in Renaissance and Early Modern Europe.** Between 1350 and 1750 the "self" emerged as concept central to European culture. This course examines this evolution by reading various life-writings and analyzing them in the larger frame of religious and secular values.

*Degree credit exclusion: AS/HUMA 3000L 6.0.*

**AS/HUMA 3410 6.0 The Art of India.** This course surveys the painting, sculpture and architecture of India, from the Indus Valley Civilization to modern times; the informing religions of Buddhism and Hinduism are also examined in some detail. Special emphasis is placed on Buddhist and Hindu iconography.

*Cross-listed to: FA/VISA 3341 6.0.*

**AS/HUMA 3420 6.0 Japanese Culture, Literature and Film.** By comparing works by Japanese authors with related films, this course explores basic patterns and themes of Japanese culture.

*Cross-listed to: AS/JP 3720 6.0, FA/FILM 3710 6.0.*

**AS/HUMA 3430 3.0 The American Film.** A survey of the major events and significant trends involved in the development of American fiction and documentary film from its beginnings through the classical studies period.

*Cross-listed to: FA/FILM 3210 3.0.*

**AS/HUMA 3431 3.0 The American Film.** The development of American cinema since the Second World War including the break-up of the studio system, the changing styles of American feature films and of documentary since the advent of network television.

*Cross-listed to: FA/FILM 3211 3.0.*

**AS/HUMA 3450 Queer Desire, Gay Representation.** This course examines 1) desire and male homosexuality(ies); 2) gay male icons and identities; 3) the connections between heterosexuality and homophobia; 4) the quest for a culture based on desire; 5) the impact of AIDS on gay culture.

*Degree credit exclusion: AS/HUMA 3000E 6.0.*

### Studies of Themes and Values

**AS/HUMA 3500 6.0 Special Topics in Studies of Themes and Values.** In any given year other courses may be offered in this area. Information concerning these is available at the divisional office.



**AS/HUMA 3600 3.0 Berlin in German Literature and Culture.** This course highlights the following periods in the story of modern Berlin: "Golden Twenties": 1945 and the end of Hitler's Reich; 1949-1989, when as a divided city, Berlin was caught in the tug-of-war between East and West; and the present "post-wall" period in which it is the capital of a united Germany.

*Cross-listed to: AS/GER 3600 3.0.*

*Prerequisite: AS/GER 2200 6.0 or permission of the department.*

*Degree credit exclusion: AS/GER 4600 3.0.*

**AS/HUMA 3620 6.0 The Tragic Muse.** A study of central myths, heroes, examples, themes and theorists of Western tragedy, from Greek and Hebrew prototypes through selected later tragedies to the present, using dramas, novels, paintings, music and films.

**AS/HUMA 3640 6.0 Intermediate Prose Workshop: Fiction.** A course for students who have demonstrated talent in the writing of prose fiction. Study may be made of the craft of the journal, short story and novel through the work of both recognized writers and students in the course.

*Note: For students who are not Creative Writing majors, enrolment in this course is based upon approval of a portfolio of 15 to 20 pages of prose submitted by the student to the coordinator of the Creative Writing program.*

**AS/HUMA 3645 6.0 Intermediate Poetry Workshop.** A course for students who are seriously engaged in the practice of poetry, and who wish to explore their strengths and develop the range of their skills in the company of other poets. The "workshop" approach encourages learning while doing.

*Note: For students who are not Creative Writing majors, enrolment in this course is based upon approval of a portfolio of 15 to 20 pages of poetry submitted by the student to the coordinator of the Creative Writing program.*

*Degree credit exclusion: AS/EN 3240 6.0.*

**AS/HUMA 3660 6.0 The Oral Tradition.** An introduction to the oral/aural aspects of culture involving discussion of their nature, origins, transmission and functions with a focus on the Canadian tradition. The history and methods of studying oral materials and practices, and the various means of interpreting them are considered.

**AS/HUMA 3670 6.0 Fantasy in the Modern World.** An exploration of the ways fantasy has shaped modern sensibility since the French Revolution.

**AS/HUMA 3710 6.0 The Arts of the Opera.** This course explores opera as a unique synthesis of music, drama, epic and the visual arts in order to study the special qualities and characteristics of operatic expression and communication in the context of modern European culture.

**AS/HUMA 3720 6.0 Form in the Arts.** An exploration of pattern, order and expressive form as embodied in non-verbal arts such as visual art, architecture, music, dance, design, ritual and

games. Class exercises in analysis and construction are supplemented by demonstrations, discussion and readings from a wide range of sources.

**AS/HUMA 3750 6.0 Visual Images of Canada.** Various themes selected from Canadian visual cultural history are used to examine problems of changing values in the society.

**AS/HUMA 3780 6.0 History of the Christian Church: Beginnings to the Reformation.** Studies stages of the developing Christian church from its origins in apostolic times to the late middle ages. Topics include personalities, institutional structure, leadership and rules, thought, education, liturgical and spiritual life, pastoral care and the church in the secular world.

*Cross-listed to: AS/HIST 3809 6.0.*

**AS/HUMA 3781 6.0 History of the Christian Church: Reformation to the Present.** A survey of the development and variety of formal organizations and associations, large and small, within which the community of professed Christians has manifested its public, historical existence, and of the norms, rules, codes, and theologies with which the church(es) govern and justify their existence, from apostolic times to the present.

*Cross-listed to: AS/HIST 3810 6.0.*

**AS/HUMA 3782 6.0 Christian Thought from 1500 to 1830.** A course on Christian religious thought in the context of European culture from the Renaissance and Reformation through the Enlightenment to the Romantic period.

**AS/HUMA 3785 6.0 The Making of Christianity and Christendom (100-800 CE).** A study of how the Christian movement of the New Testament period turned into the coherent religion, culture and social institution of early-medieval Christianity, in the process defining its position on leadership, doctrine, sex roles, education, worship etc.

*Degree credit exclusion: AK/HUMA 3880 6.0.*

**AS/HUMA 3790 6.0 Jesus and Interpretation.** Who was the historical man Jesus? Which sayings and parables attributed to him are authentic? An introduction to the historical-critical methods used to identify and reconstruct this core material, and to various philosophical and literary interpretations of the issues.

**AS/HUMA 3800 6.0 Contemporary Religious Thought.** An enquiry into modern conceptions of God, humanity and the world, with special emphasis on tracing their origins in ancient and medieval thought.

**AS/HUMA 3805 6.0 Religious Belief and Philosophical Thought in the 20th Century.** A study of new developments in theology and in the philosophic investigation of religion. The focus is on the more comprehensive systems of thought put forward

in the 20th century in response to the increasing secularity of North Atlantic societies.

**AS/HUMA 3810 6.0 Interpretations of Reality.** While major emphasis in this course is placed on reading Renaissance literature, biblical, classical and modern texts are also included.

**AS/HUMA 3820 3.0 Female Spirituality: Comparative Perspectives-Non-Western Traditions.** Introduction to the comparative study of religion, focusing on female spirits, female spirituality and women's religious roles, and related gender issues. Cultures studied include those of East Asia, India, Africa and Native America (North and South).

*Degree credit exclusion: AS/HUMA 2820 6.0.*

**AS/HUMA 3821 3.0 Female Spirituality: Comparative Perspectives—Western Traditions.** A comparative study of religion, focusing on female spirits, female spirituality and women's religious roles, and related gender issues. Traditions studied includes Judaism, Christianity and Islam, as well as their precursors and modern Goddess spirituality.

*Degree credit exclusion: AS/HUMA 2820 6.0.*

**AS/HUMA 3830 6.0 Israelite Prophecy.** An enquiry into the evolving forms and messages of biblical prophecy, this course concentrates primarily, but not only, on the history of the religion of Israel. Special attention is devoted to the place of prophets in Israelite society.

**AS/HUMA 3835 6.0 Medieval Jewish Thought.** A critical study of the development of Jewish religious thought during the Middle Ages. Attention is given to the more comprehensive systems of philosophy, those of Philo, Saadia Gaon, Judah Halevi, Moses Maimonides, Levi Gersonides and to the Zohar.

**AS/HUMA 3840 6.0 Rabbinic Judaism: Thought and Institutions.** An historical analysis of the formation of the ideas, literature and institutions of rabbinic Judaism as they took shape from the first to the seventh centuries.

**AS/HUMA 3850 6.0 The Final Solution: Perspectives on the Holocaust.** An examination of the Nazi attempt to exterminate the Jews: the historical and philosophical background, the theological and psychological implications, the history and literature of the period.

**AS/HUMA 3860 6.0 Mysticism.** An introductory study of ecstatic religious experience in primal cultures (Amerindian shamanism and African mediumism) and the high civilizations (the mystic experience in Chinese religion, Hinduism, Buddhism, Judaism, Christianity and Islam) and modern theories concerning the nature of trance states.

**AS/HUMA 3870 3.0 Native North American Religious Traditions.** Introductory survey of the Native religious traditions of North America, including the effects of Euroamerican domination and contemporary revitalization movements. The course highlights female spirituality and introduces the religious studies methodology of religion-ecology. Canadian examples predominate.

*Degree credit exclusion: AS/HUMA 3870 6.0.*

**AS/HUMA 3880 6.0 On Values.** Kinds and instances of values expressed in poetry and prose are examined, the primary concern being with the problems of recognition, appreciation and rational criticism of values in a literary context.

**AS/HUMA 3890 6.0 On Love.** An investigation of the implications of a word which has been near the centre of our consciousness (in terms of religious experience, attitudes towards the irrational, attitudes towards others or the other) since poets first began to record that consciousness.

**AS/HUMA 3895 6.0 Magic and Imagination.** The course examines both real magic and magic in myth and literature as exercises in imagination.

**AS/HUMA 3920 6.0 Technology and Communication.** This course examines various degrees of cultural modification as attempts to survive the network of supra-cultural values established by technology. It is this altered pattern of cultural behaviour which is referred to as "Culture Two."

**AS/HUMA 3930 6.0 Woman, Myth and Religion.** A study of the role of woman and/or the concept of the female (or the feminine) in myth and religion.

**AS/HUMA 3940 6.0 The Feminine in Chinese Culture: Ideal and Reality.** A study of the feminine ideal and its role in the evolution of Chinese culture from earliest times to the present.

*Degree credit exclusion: AS/HUMA 3940 3.0.*

**AS/HUMA 3950 6.0 Gender and Morality: Feminist Challenges to the Tradition.** From an interdisciplinary perspective this course studies the relationship between gender and conceptions of moral decision making and the moral life.

**AS/HUMA 3960 6.0 Mothering and Motherhood.** This course examines motherhood as it is theorized and analysed in interdisciplinary feminist scholarship and as it is portrayed in women's fictional and autobiographical writings. The history, sociology, psychology and politics of motherhood with emphasis on class, cultural and racial differences are investigated.

*Cross-listed to: AS/AK/GL/WMST 3508 6.0, GL/SOSC 3608 6.0.*

*Degree credit exclusions: AK/WMST 3040 6.0, AK/WMST 3001N 6.0.*

**AS/HUMA 3970 6.0 Science and Gender in Modern Western Culture.** This course analyzes the gendered "nature" of modern Western scientific culture. It draws on literary, historical and philosophical sources, films and contemporary feminist writings.

#### 4000-Level Courses

**AS/HUMA 4000 3.0/4000 6.0 Special Topics in Humanities.** Several seminars in special subjects are offered by members of the division, as announced annually.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4050 3.0/4050 6.0 Independent Studies.** In any given year, a limited number of faculty members may be available to supervise a special program of study (for a limited number of students) equal in credit to one full or half course.

*Prerequisite: Permission of the instructor and the Curriculum Committee of the Division of Humanities.*

*Note: Enquiries should be directed to the Office of the Division of Humanities. Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

**AS/HUMA 4100 6.0 Studies in Greek and Roman Culture.** The course examines in a seminar format a selected theme in Greek and/or Roman culture, using Greek and/or Roman literary, historical, philosophical and artistic material. In any given year one or more courses may be offered under this rubric.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4101 6.0 Narratives in Ancient Art and Literature.** A study of representative visual and textual narratives in Greek and Roman society which characteristically featured the social, political ideological and programmatic symbols and imagery of their time.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4160 6.0 Madness and Culture.** This course utilizes literature and the fine arts, together with studies in history, sociology and psychology, to explore how various cultures and time periods respond to and identify madness.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4210 6.0 Canadian Literature and the Arts.** Selected themes in Canadian writing (about two-thirds of the required material and related class discussion is in the field of writing), film, architecture, visual and performing arts.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4220 6.0 The Science of Society: Social Thought in North America, 1890-1940.** An analysis of the intellectual, cultural and social changes which contributed to the rise of the social sciences and reorganization of the liberal arts in North America during the period 1890-1940. By focusing on this context

as well as major theories and trends in several disciplines, this course provides insight into modern North American culture.

*Cross-listed to: AS/HIST 4800 6.0.*

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4225 6.0 Nature in Narrative.** This research seminar focuses on the subject of eugenics in order to examine contemporary theoretical and methodological issues in the interdisciplinary study of science in its social context. The course covers the period from 1870 to the present.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4300 6.0 Aspects of Modern Latin American and Caribbean Studies.** This seminar is designed to integrate the General Honours program in Latin American and Caribbean Studies at the upper level.

*Cross-listed to: AS/SOSC 4450 6.0.*

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4310 6.0 Topics in Religion and Politics in Latin America and the Caribbean.**

This course examines religious thought and practice in Latin America and the Caribbean focusing on religious responses to social and political issues in the region.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4400 6.0 Asian Art.** An in-depth seminar dealing with special areas in Indian, Chinese or Japanese art.

*Prerequisite: At least six credits in Asian art at the 3000-level.*

*Cross-listed to: FA/VISA 4340 6.0.*

**AS/HUMA 4610 3.0 Psychology and Literature.** An exploration of issues involved in the interrelationship of psychology and literature in order to enhance students' understanding and appreciation of human behaviour, human experience and imaginative literature.

*Cross-listed to: AS/PSYC 4120 3.0.*

*Prerequisite: Permission of the instructor.*

*Degree credit exclusions: AS/PSYC 4120 6.0, AS/HUMA 4610 6.0.*

**AS/HUMA 4620 6.0 Works and Days: Writers on their Art and their Lives.** The course centres on the reading and discussion of journals, autobiographies, letters, novels, poems which show writers reflecting on their work, on its development, on its perceived relationship both to their own lives and to the lives of others.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4630 6.0 Senior Prose Workshop: Fiction and Non-Fiction.** This course is intended primarily for students who have taken AS/HUMA 3640 6.0 or AS/HUMA 3645 6.0 and demonstrated that they can benefit from advanced study of the writing of prose fiction. Students are expected to re-examine and enlarge potentialities already evident within their work.

*Prerequisite: Permission of the instructor.*

### AS/HUMA 4640 6.0 Senior Poetry Workshop.

This course is intended primarily for students who have taken AS/EN 3240 6.0 or AS/HUMA 3645 6.0 and demonstrated that they can benefit from advanced study of the writing of poetry. Students are expected to re-examine and enlarge potentialities already evident within their work.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4650 6.0 Myth and Mythology.** An interdisciplinary study of myth and mythology from a variety of points of view, among which may be literary, cultural, psychological, religious, political, sociological and anthropological. Among the possible emphases may be definition, interpretation and influences.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4680 6.0 The Self in and Against Culture.** A study of the emergence and development in 19th- and 20th-century Western literature of the novel of life-apprenticeship, with such special cases as the Bildungsroman and the artist novel.

*Prerequisite: Permission of the instructor.*

### AS/HUMA 4730 6.0 Topics in Arts and Ideas.

A study of the sources, contexts, expressions and inter-relationships of the ideas and the non-literary arts of a place or period. Social, literary, philosophical and religious works and their interactions with the arts (painting, sculpture, music and architecture) are examined in a specific context.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4735 6.0 Iconological Methods for Medieval Study.** Visual Imagery in the Middle Ages was self-consciously conceived as a language, in a semiotic frame of meaning with cultural references and for social purposes. This seminar teaches iconological methods of historical analysis which enable scholars to read the "language of the visual"; it concludes with a methodological critique of the historiography of iconology.

*Cross-listed to: AS/HIST 4220 6.0, FA/VISA 4930 6.0.*

*Prerequisite: Permission of the instructor.*

### AS/HUMA 4740 6.0 The Sacred and the Arts.

Cross-cultural study of art and religion from historical and phenomenological perspectives. Seminar analyzes the decor of artifacts utilized in ritual, images that are the focus of worship or symbolic of the sacred and art as a religious activity.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4800 6.0 The Parables of Jesus.** In order to begin to understand how the parables of Jesus function, one must master a range of critical methods (e.g. form criticism, historical criticism, rhetorical criticism, structural exegesis) and learn the various conceptual approaches to the hermeneutical problem.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4820 6.0 Problems in the Study of Judaism.** In any given year one or more courses related to Jewish philosophy, culture and history may be offered. Information concerning these is available at the divisional office in March of the preceding year.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4880 6.0 Special Seminars: Text and Interpretation.** Several seminars are offered by members of the division who are Vanier College Fellows as announced annually. Typically such courses would involve intensive examination of the works of a single author as these pertain to cultural criticism and theories of interpretation.

*Prerequisite: Permission of the instructor.*

**AS/HUMA 4881 3.0 Bertolt Brecht: Literature, Culture and Politics (in Translation).** Using an interdisciplinary approach, the course examines Brecht's understanding of the interplay of literature, culture and politics, as shown in his dramatic, poetical and theoretical works.

*Cross-listed to: AS/GER 4620 3.0.*

*Language of instruction: English.*

**AS/HUMA 4890 6.0 Topics in Religion and Literature.** In any given year, one or more courses, related to the study of religion and literature, may be offered. Information concerning these is available at the divisional office in the spring of the preceding year.

*Prerequisite: Permission of the instructor.*

## Individualized Studies – Arts

### Program Office:

238 McLaughlin College, 416-736-5128

### Program Coordinator:

Jerry Ginsburg  
416-736-5128, ext. 77086

The Specialized Honours BA program in Individualized Studies is designed for students who wish to pursue a topic or line of enquiry that requires drawing together courses from several of the University's disciplines or fields of study.

Students interested in pursuing an Individualized Studies degree will be asked by the coordinator to prepare a statement describing the particular subject they wish to pursue. They will also be asked to identify a set of courses, from the Faculty of Arts and elsewhere, which are relevant to this theme. If the coordinator is satisfied that the proposed subject cannot be adequately pursued under an established program or departmental major and that sufficient courses and faculty expertise exist to support individualized study in the area in question, the student will be permitted to enter the Individualized Studies program. (Normally, students are eligible to join the program if they have completed at least four and no more than 11 courses by the start of the academic year.)

Students in Individualized Studies must follow all the rules for a Specialized Honours BA. In

addition, they must take, as six of the 54 credits relevant to their theme, the Individualized Studies Thesis Course, AS/INDV 4000 6.0. This course is to be taken during the student's final year of study.

## Courses in Individualized Studies

**AS/INDV 4000 6.0 Honours Thesis or Project.** The purpose of this course is to offer Individualized Studies students a chance to draw together the parts of their topic by carrying out a sustained piece of research and writing. An adviser, arranged for by the student, directs the thesis and acts as one of its readers. Normally the finished thesis is around 60 pages long.

## Information Technology – Arts

### Program Office:

N602 Ross, 416-736-2100, ext. 22647

### Web Address:

[www.ITEC.yorku.ca](http://www.ITEC.yorku.ca)

### Coordinator:

G. Denzel

### Associate Professors:

G. Denzel, A. Krushnrirk

The Faculty of Arts Information Technology program (ITEC) is designed to provide students with the ability to examine how information and computer technology interact with culture and society. The multidisciplinary core of the program combines the applied aspects of computer systems with the historical, social and ethical contexts of computing and information processing and dissemination.

Drawn from the various components of the program, the skills the ITEC program foster include computing, problem solving, analytical, research and critical writing skills. The program offerings are structured around both technology related courses – which develop the applied aspects of computer systems – and non-technology related courses – which focus on understanding the implications of technology across a broad range of activities within our society.

For specific Information Technology degree requirements, see the Faculty of Arts "Programs of Study" section of this Calendar.

## Courses in Information Technology

**AS/AK/ITEC 1010 3.0 Information and Organizations.** The value and importance of information to organizations, how it is used, stored and processed; emphasizes the uses of information technologies of various kinds, the benefits of the technologies and the associated costs and problems; use of desktop applications.

*Prerequisite: None.*

**AS/AK/ITEC 1011 3.0 Introduction to Information Technologies.** Hardware and software technology for handling information; system architecture for single user, central and networked systems; telecommunications; human computer interface; storage systems; operation systems; applications software.

*Cross-listed to:* AK/ITEC 1011 3.0.

*Prerequisite:* None.

*Note:* Students may not take this course for degree credit if they have taken or are taking any Computer Science course at the 2000 level or higher.

**AS/AK/ITEC 1020 3.0 Introduction to Computer Science I.** The main objective of the course is to introduce the student to problem solving using a procedural programming language. The course also covers the tools and techniques of an advanced interactive programming environment and simple data structures and algorithms. Three lecture hours, laboratory exercises.

*Cross-listed to:* SC/AS/AK/COSC 1020 3.0.

*Prerequisites:* If no university-level mathematics: OAC Calculus and one other OAC in mathematics (normally Finite Mathematics or Algebra and Geometry) with an average grade of 75 per cent in all OAC mathematics and no grade less than 65 per cent; otherwise: at least six credits of university-level mathematics with a grade average over all MATH credits of C+ or better [B+ or better if it is a service course (second digit is 5)]. *Recommended:* Previous programming experience; for example, a high school programming course or SC/AS/AK/COSC 1530 3.0.

**AS/AK/ITEC 1030 3.0 Introduction to Computer Science II.** The main objective of the course is to provide the student with a rudimentary understanding of algorithms and data structures. Three lecture hours, laboratory exercises.

*Cross-listed to:* SC/AS/AK/COSC 1030 3.0.

*Prerequisites:* SC/AS/COSC/ITEC 1020 3.0 or AS/AK/ITEC 1020 3.0 or AK/COSC 2411 3.0.

**AS/AK/ITEC 2010 3.0 Systems Analysis and Design I.** Case studies in the development of information systems; exposing the reasons for success or failure; IS planning; various IS development methodologies and their strengths and weaknesses; role of the analyst; analysis project.

*Prerequisites:* AS/AK/ITEC 1010 3.0 and AS/AK/ITEC 1011 3.0.

**AS/AK/ITEC 2011 3.0 Fundamentals of Data Structures.** A study of fundamental data structures and their use in the efficient implementation of algorithms. Topics include abstract data types, lists, stacks, queues, trees and graphs.

*Cross-listed to:* SC/AS/AK/COSC 2011 3.0.

*Prerequisites:* AS/AK/ITEC 1030 3.0 or AS/SC/AK/COSC 1030 3.0 or AK/COSC 2412 3.0; AS/AK/SC/MATH 1190 3.0 or AS/AK/SC/

MATH 1090 3.0; and a cumulative grade point average of at least 4.5 over all completed ITEC courses that are cross-listed with COSC.

**AS/AK/ITEC 2021 3.0 Computer Organization.** Computer structures, digital representation of data, machine languages, instruction execution and addressing techniques. The major functional blocks of a computer: main memory, control unit, arithmetic and logic unit, input/output bus structures, interrupt system, DMA channels, peripheral devices.

*Cross-listed to:* SC/AS/AK/COSC 2021 3.0.

*Prerequisites:* AS/AK/ITEC 1030 3.0 or AS/SC/AK/COSC 1030 3.0 or AK/COSC 2412 3.0; AS/AK/SC/MATH 1190 3.0 or AS/AK/SC/MATH 1090 3.0; and a cumulative grade point average of at least 4.5 over all completed ITEC courses that are cross-listed with COSC.

**AS/AK/ITEC 3210 3.0 Applied Data Communications and Networks.** Communications systems, environments and components; choices for data, voice and imagery; network control, design and management; distributed and local networks; client/server and intranet technologies; Web based technologies.

*Cross-listed to:* AK/ITEC 3210 3.0.

*Prerequisites:* AS/AK/ITEC 2010 3.0; AS/AK/ITEC 1030 3.0 or SC/AS/AK/COSC 1030 3.0; AS/AK/SC/MATH 1131 3.0.

*Degree credit exclusions:* AK/AS/SC/COSC 32110 3.0, AK/AS/SC/COSC 3212 3.0, AK/COSC 3409A 3.0, AK/COSC/3409B 3.0.

**AS/AK/ITEC 3421 3.0 Introduction to Database Systems.** Concepts, approaches and techniques in database management systems (DBMS). Logical model of relational databases. An introduction to relational database design. Other topics such as query languages, crash recovery and concurrency control.

*Cross-listed to:* SC/AS/AK/COSC 3421 3.0.

*Prerequisite:* AS/AK/ITEC 2011 3.0 or AS/AK/SC/COSC 2011 3.0 or AK/COSC 3501 3.0 and a grade point average of at least 4.5 over all completed ITEC courses that are cross-listed with COSC.

*Degree credit exclusions:* AS/SC/COSC 3412 3.0, AK/COSC 3503 3.0.

**AS/AK/ITEC 3461 3.0 User Interfaces.** This course introduces user interfaces and the tools and mechanisms to create and prototype them. Students work in small groups and learn how to design user interfaces, how to realize them and how to evaluate the end result.

*Cross-listed to:* AK/AS/SC/COSC 3461 3.0.

*Prerequisite:* AS/AK/ITEC 2011 3.0 or AS/AK/SC/COSC 2011 3.0 or AK/AS/SC/COSC 2031 3.0 or AK/COSC 3501 3.0 and a grade point average of at least 4.5 over all completed ITEC courses that are cross-listed with COSC.

*Degree credit exclusions:* Not open to students who successfully completed AS/SC/COSC 4341 3.0 before Fall, 1999.

**AS/AK/ITEC 4010 3.0, Systems Analysis and Design II.** This course deals with intermediate and advanced topics in systems analysis and design. Topics include the systems development life cycle, object-oriented design, CASE tools and recent advances in system analysis and design.

*Cross-listed to:* AK/ITEC 4010 3.0.

*Prerequisite:* AS/AK/ITEC 2010 3.0

*Pre/Corequisite:* AS/AK/ITEC 3421 3.0 or AS/AK/SC/COSC 3421 3.0 or AK/COSC 3503 0.

*Note:* This course involves a project component. Computer use is required.

**AS/AK/ITEC 4020 3.0, Internet Client-Server Systems.** This course offers a thorough treatment of client-server systems concepts, with programming techniques that yield results in Web pages and Web-based applications. Topics include effective Web page design, server and client-side scripting, Java servlets, ActiveX controls, and the essentials of electronic commerce.

*Cross-listed to:* AK/ITEC 4020 3.0.

*Prerequisites:* AS/AK/ITEC 3421 3.0 or AS/AK/SC/COSC 3421 3.0 or AK/COSC 3503 3.0; AS/AK/ITEC 3461 3.0 or AS/AK/SC/COSC 3461 3.0; and AS/AK/ITEC 3210 3.0 or AS/AK/SC/COSC 3212 3.0.

## Departmental and Divisional Courses in Information Technology

For specific program requirements please refer to the Faculty of Arts "Programs of Study" section in this Calendar. Course descriptions for the courses listed below are contained in the appropriate departmental and divisional listings in the Courses of Instruction section of this Calendar.

AS/ANTH 4200H 6.0 The Cultures of the Web.  
AS/HIST 3785 6.0 Science, Technology and Society in Chinese History.  
AS/HIST 3870 6.0 Historical Development of Technology Since 1800 and Its Impact.  
AS/HIST 4680 6.0 History of Communication in the United States.  
AS/HUMA 1650 9.0 The Networked Imagination.  
AS/HUMA 2920 9.0 Spreading the Word: Knowledge, Technology and Culture.  
AS/HUMA 3350 6.0 Modernism and Anti-Modernism American Culture.  
AS/HUMA 3920 6.0 Technology and Communication.  
AS/HUMA 4225 6.0 Topics in Science in Cultural Context.  
AS/MATH 1013 3.0 Applied Calculus I.  
AS/MATH 1014 3.0 Applied Calculus II.  
AS/MATH 1025 3.0 Applied Linear Algebra.  
AS/MATH 1131 3.0 Introduction to Statistics I.  
AS/MATH 1190 3.0 Introduction to Sets and Logic.  
AS/MATH 1300 3.0 Differential Calculus with Applications.  
AS/MATH 1310 3.0 Integral Calculus with Applications.  
AS/MATH 1581 3.0 Business Mathematics I.  
AS/MATH 2015 3.0 Applied Multivariate and Vector Calculus.  
AS/MATH 2030 3.0 Elementary Probability.

AS/MATH 2131 3.0 Introduction to Statistics II.  
 AS/MATH 2221 3.0 Linear Algebra with Applications I.  
 AS/MATH 2222 3.0 Linear Algebra with Applications II.  
 AS/MATH 2270 3.0 Differential Equations.  
 AS/MATH 2280 3.0 The Mathematical Theory of Interest.  
 AS/MATH 2310 3.0 Calculus of Several Variables with Applications.  
 AS/MATH 2320 3.0 Discrete Mathematical Structures.  
 AS/MATH 2570 3.0 Elementary Statistics II.  
 AS/MATH 3020 6.0 Algebra I.  
 AS/MATH 3033 3.0 Classical Regression Analysis.  
 AS/MATH 3034 3.0 Applied Categorical Data Analysis.  
 AS/MATH 3050 6.0 Introduction to Geometries.  
 AS/MATH 3110 3.0 Introduction to Mathematical Analysis.  
 AS/MATH 3131 3.0 Mathematical Statistics I.  
 AS/MATH 3132 3.0 Mathematical Statistics II.  
 AS/MATH 3170 6.0 Operations Research I.  
 AS/MATH 3210 3.0 Principles of Mathematical Analysis.  
 AS/MATH 3241 3.0 Numerical Methods I.  
 AS/MATH 3242 3.0 Numerical Methods II.  
 AS/MATH 3280 6.0 Actuarial Mathematics.  
 AS/MATH 3330 3.0 Regression Analysis.  
 AS/MATH 3430 3.0 Sample Survey Design.  
 AS/MATH 3500 6.0 Mathematics in the History of Culture.  
 AS/MATH 4010 6.0 Real Analysis.  
 AS/MATH 4020 6.0 Algebra II.  
 AS/MATH 4030 3.0 Probability Theory.  
 AS/MATH 4080 6.0 Topology.  
 AS/MATH 4141 3.0 Advanced Numerical Methods.  
 AS/MATH 4142 3.0 Numerical Solutions to Partial Differential Equations.  
 AS/MATH 4150 3.0 Topics in Geometry.  
 AS/MATH 4170 6.0 Operations Research II.  
 AS/MATH 4280 3.0 Risk Theory.  
 AS/MATH 4430 3.0 Stochastic Processes.  
 AS/MATH 4570 6.0 Applied Optimization.  
 AS/MATH 4730 3.0 Experimental Design.  
 AS/MATH 4930 3.0 Time Series and Spectral Analysis.  
 SC/NATS 1710 6.0 The Nature and Growth of Scientific Thought.  
 SC/NATS 1720 6.0 Light and Sound.  
 SC/NATS 1730 6.0 Science as Discovery.  
 SC/NATS 1740 6.0 Astronomy.  
 SC/NATS 1750 6.0 The Earth and its Atmosphere.  
 SC/NATS 1760 6.0 Science and Technological Change.  
 SC/NATS 1770 6.0 Technology and the Environment.  
 SC/NATS 1810 6.0 Energy.  
 SC/NATS 1830 6.0 Matter and Structure.  
 AS/PHIL 2070 3.0 Introductory Ethics.  
 AS/PHIL 2075 3.0 Introduction to Applied Ethics.  
 AS/PHIL 3050 3.0 Business Ethics.  
 AS/PHIL 4150 3.0 Topics in Applied Ethics.  
 AS/POLS 2610 6.0 Public Policy and Administration.  
 AS/POLS 3100 3.0 The Politics of Communication and Culture in Canada.  
 AS/POLS 4000L 3.0 The Politics of Cyberspace.  
 AS/POLS 4185 6.0 Culture and Communication.

AS/SOCI 2070 6.0 Social Order and Social Organization.  
 AS/SOCI 3610 6.0 The Sociology of Occupations and Professions.  
 AS/SOCI 3620 6.0 Formal Organizations.  
 AS/SOCI 3840 6.0 Mass Communications.  
 AS/SOSC 1731 9.0 CyberCities: The Community and Communication in Changing Urban Areas.  
 AS/SOSC 2080 9.0 Information and Technology.  
 AS/SOSC 2310 9.0 Introduction to Communications.  
 AS/SOSC 2860 6.0 Interactive Multimedia.  
 AS/SOSC 3310 6.0 Communications For Tomorrow.  
 AS/SOSC 3311 6.0 Communication in Organizations.  
 AS/SOSC 3550 6.0 Modernity at the Millennium.  
 AS/SOSC 3780 3.0 Microcomputers in Urban Analysis.  
 AS/SOSC 4990S 6.0 The Underside of Progress.

## Interdisciplinary Fine Arts – Fine Arts

See *Fine Arts Cultural Studies*.

## Kinesiology and Health Science – Arts, Pure and Applied Science

### School Administrative Office:

302 Tait McKenzie, 416-736-5182

### Web Address:

www.kinesiology.yorku.ca

### Office of the Chair:

334 Norman Bethune College,  
416-736-5403

### Undergraduate Office:

333 Norman Bethune College,  
416-736-5807

### Chair of the School:

R. Kelton

### Interim Director of Undergraduate Studies:

D. Peltola

### Associate Director of Undergraduate Studies:

M. Mosher

### Director of Sport and Recreation:

P. Murray

### Professors:

E. Cafarelli, D. Chambers, C. Davis,  
B. Fowler, N. Gledhill, D. Hood

### Professors Emeriti:

T. Bomp, F. Cosentino, S.G. Robbins

### Associate Professors:

T. Duck, J.C. McDermott, M. van der Merwe,  
R. Kelton, V.E. Wilson

### Associate Professor Emeritus:

K. Jones

### Assistant Professors:

F. Flint, L. Gagliese, T.L. Haas,  
P.T. Katzarzyk, P. Keir, G. Malszecki,  
A. Moore, M. Riddell, L. Sergio, S. Vail

### Senior Lecturers:

R. Bain, M. Mosher, T. Zivic

### Associate Lecturers:

N. Bajin, T. Bomp, W. Dyba, P. Murray,  
N. Smith, T.E. Willis, C. Wilson

### Sessional Instructors:

E. Bojesin, V. Jamnik, B. Pangos

The School of Kinesiology and Health Science has a curriculum which presents wide and flexible offerings to the student. All students take a core of required subject matter encompassing the major areas of emphasis in Kinesiology and Health Science. Students may choose from a variety of elective courses to develop a highly specialized area of interest or to obtain a more general and broad program. The school attaches laboratories, field work and seminars to many of its courses, thereby coupling theory and technical knowledge with applied experiences and providing students with a greater opportunity for exchange and discussion with each other, with teachers and with experts in the area. The school also has grouped courses, enabling students to obtain certification in the areas of athletic therapy, sport administration, coaching and fitness assessment and exercise counselling.

A physical activity skills "practicum" program is an integral part of the Undergraduate program in Kinesiology and Health Science. Students take at least two practicum credits in each of gymnastics/dance, aquatics, team sports, individual sports, track and field, and emergency care, and complete their requirements from the large variety of practicum courses offered.

For specific requirements of programs offered by Kinesiology and Health Science, see the Faculty of Arts "Programs of Study" section of this Calendar for BA Honours programs and Science section V for BSc Honours programs.

## Courses in Kinesiology and Health Science

Academic courses in Kinesiology and Health Science offered by the School of Kinesiology and Health Science have the prefix "KINE". Practicum courses have the prefix "PKIN".

Not all courses will necessarily be offered in any given year; for details of courses to be offered, consult the Kinesiology and Health Science mini-calendar.

### 1000-Level Courses

**AS/SC/KINE 1000 4.0 Foundations of Kinesiology and Health Science.** This course examines the historical, philosophical and socio-cultural factors critical in the development of kinesiology and health science. Body concepts and human movement issues are explored. Critical skills (analysis, research, writing, computational methods), academic and career planning are included. One and one-half lecture hours, alternating weekly with three lecture hours. Two terms.

*Degree credit exclusions: AS/SC/KINE 1000 3.0, AS/SC/KINE 2010 3.0, AS/SC/PHED 1000 3.0, AS/SC/PHED 1010 3.0, AS/SC/PHED 2010 3.0.*

**AS/SC/KINE 1020 4.0 Fitness Assessment and Training.** An analysis of the basic elements of fitness including their assessment and training. Topics such as athlete assessment, employee fitness programs, home fitness programs, private clubs, fitness assessment certification and government fitness programs are also covered. One and one-half lecture hours per week, two laboratory hours in alternate weeks. Two terms.

*Degree credit exclusions:* AS/SC/KINE 1020 3.0, AS/SC/PHED 1020 3.0.

## 2000-Level Courses

**AS/SC/KINE 2000 3.0 Psychology of Physical Activity.** An overview of the theoretical frameworks and psychological principles related to physical activity, exercise and sport. Practical applications to individual and group performance enhancement are emphasized. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/PSYC 1010 6.0.

*Degree credit exclusions:* AS/SC/KINE 3090 3.0, AS/SC/PHED 3090 3.0.

**AS/SC/KINE 2020 3.0 Introduction to Health.** This course provides an introduction to factors that influence health status. Included are health definitions, health promotion, chronic diseases, disease prevention and basic epidemiological principles. Three lecture hours per week. One term.

*Degree credit exclusions:* AS/SC/KINE 3080 3.0, AS/SC/PHED 3080 3.0.

**AS/SC/KINE 2031 3.0 Human Anatomy.** An overview of the organization and structure of the human body. Each of the following systems is examined with respect to cell morphology, cell and tissue arrangement, and inter-systems organization: skeletal, muscular, nervous, circulatory, lymphatic, respiratory, urinary, reproductive, and endocrine. Three lecture hours per week, two laboratory hours in alternate weeks. One term.

*Degree credit exclusions:* AS/SC/KINE 3070 3.0, AS/SC/PHED 2070 3.0, SC/PHED 2070 4.0, AS/PHED 3070 3.0, SC/PHED 3070 4.0, SC/NATS 1650 6.0.

**AS/SC/KINE 2049 4.0 Research Methods in Kinesiology.** This course introduces students to the procedures utilized to design and conduct research in the discipline of kinesiology. Three lecture hours and two laboratory hours per week. One term.

*Degree credit exclusion:* AS/SC/PSYC 2030 3.0.

**AS/SC/KINE 2050 3.0 Analysis of Data in Kinesiology I.** An introduction to scientific method and the statistical analysis of experimental data. The conduct of simple experiments, techniques of naturalistic observation and the analysis of resulting data using fundamental concepts of descriptive and inferential statistics. Two lecture hours and two laboratory hours per week. One term.

*Prerequisite:* AS/SC/KINE 2049 4.0.

*Degree credit exclusions:* SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 2500 3.0, ES/ENVS 2010 6.0, ES/ENVS 2010 3.0, AS/SC/GEOG 2420 3.0, AS/SC/AK/MATH 1131 3.0, AS/SC/MATH 1132 3.0, AS/SC/AK/MATH 2500 3.0, AS/SC/AK/MATH 2560 3.0, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0, AK/PSYC 2510 3.0, AS/SOCI 2030 6.0, AS/SOCI 3030 6.0.

**AS/SC/KINE 2060 3.0/2060 6.0 Special Topics.** Specialized subjects are offered by members of the School of Kinesiology and Health Science, as announced annually. Not all special topics courses are eligible for Science (SC) credit.

**AS/KINE 2380 3.0 Introduction to Sport Administration.** This course is designed to introduce students to the knowledge and skills needed to be successful in sport management. Topics include leadership styles, communication and change management skills, creative problem solving and an introduction to event management and marketing. Three lecture hours per week. One term.

**AS/SC/KINE 2475 3.0 Coaching: The Art and Science.** This course introduces the fundamental principles involved in the coaching process. Background and philosophic issues related to the coach and the athlete are explored. Three lecture hours per week. One term.

*Degree credit exclusion:* Not open to students who have completed or are taking any 3000- or 4000-level course in coaching.

*Note:* Upon successful completion of this course, students receive Level I Theory certification of the National Coaching Certificate program.

**AS/KINE 2480 6.0 Introduction to Leisure.** Leisure as a medium for human expression is examined from an interdisciplinary and professional delivery service system perspective. Critical thinking, writing, research and service system analysis are emphasized in the course. Three lecture hours per week. Two terms.

*Degree credit exclusion:* AS/PHED 2480 6.0.

**AS/SC/KINE 2490 3.0 Sport Therapy I.** The purpose of the course is to provide students with a broad spectrum of knowledge relating to the physiological, psycho-social and pathological aspects of participation in sport with an emphasis on the management factors in injury prevention and remediation. Three lecture hours per week. One term.

*Prerequisite or corequisite:* AS/SC/KINE 2031 3.0.

*Degree credit exclusion:* AS/SC/PHED 2490 3.0.

## 3000-Level Courses

**AS/SC/KINE 3011 3.0 Human Physiology I.** The focus of this course is the cellular basis of human physiology. Basic principles of physiology are presented from the viewpoint of the simplest structural unit — the cell, in order to provide a sound basis for understanding complex multicellular organisms in subsequent courses. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 2031 3.0.

*Degree credit exclusions:* AS/SC/KINE 3070 3.0, AS/SC/PHED 2070 3.0, SC/PHED 2070 4.0, AS/SC/PHED 3010 3.0, SC/PHED 3010 4.0, AS/PHED 3070 3.0, SC/PHED 3070 4.0.

**AS/SC/KINE 3012 3.0 Human Physiology II.** The principles of homeostasis and physiological regulation are studied in relation to the cardiorespiratory, renal, locomotor, reproductive and digestive systems. Laboratory work is an essential part of the course. Three lecture hours per week, two laboratory hours in alternate weeks. One term.

*Prerequisite:* AS/SC/KINE 3011 3.0. *Introductory biology or life science is highly recommended.*

*Degree credit exclusions:* AS/SC/KINE 3070 3.0, AS/SC/PHED 2070 3.0, SC/PHED 2070 4.0, AS/SC/PHED 3010 3.0, SC/PHED 3010 4.0, AS/PHED 3070 3.0, SC/PHED 3070 4.0.

**AS/SC/KINE 3020 3.0 Skilled Performance and Motor Learning.** An introduction to the analysis and development of skilled performance. Two lecture hours and two laboratory hours per week. One term.

*Prerequisites:* AS/SC/KINE 2050 3.0; AS/SC/PSYC 1010 6.0.

*Degree credit exclusion:* AS/SC/PHED 3020 3.0.

**AS/SC/KINE 3030 3.0 Introduction to Biomechanical Analysis of Human Movement.** Human movement is investigated with particular reference to the laws of physics (mechanics) and anatomical concepts as applied to joint motion and muscular action. Application of biomechanics to sports skills execution and laboratory exposure to contemporary analysis are included. Three lecture hours and one laboratory hour per week. One term.

*Prerequisite:* AS/SC/KINE 2031 3.0.

*Degree credit exclusion:* AS/SC/PHED 3030 3.0.

**AS/SC/KINE 3050 3.0/3050 6.0 Special Topics.** Seminars in specialized subjects are offered by members of the School of Kinesiology and Health Science, as announced annually. Not all special topics courses are eligible for Science (SC) credit.

**AS/SC/KINE 3090 3.0 Psychology of Sport and Physical Activity.** The theories and research of major topics in sport psychology are presented. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/KINE 2050 3.0; AS/SC/PSYC 1010 6.0.

*Degree credit exclusions:* AS/SC/KINE 2000 3.0, AS/SC/PHED 3090 3.0.

**AS/SC/KINE 3150 3.0 Analysis of Data in Kinesiology II.** This intermediate course in inferential statistics includes t-tests, multiple regression, ANOVA and selected non-parametric statistics. Practical applications to research in Kinesiology and Health Science are emphasized. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 2050 3.0.

*Degree credit exclusions:* SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 3500 3.0, ES/ENVS 2010 6.0, AS/SC/GEOG 2420 3.0, AS/SC/MATH 1132 3.0, AS/SC/AK/MATH 2500 3.0, AS/SC/AK/MATH 2570 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2022 3.0, AK/PSYC 3110 3.0, AS/SOCI 3030 6.0.

**AS/KINE 3240 3.0 Behavioural Approach to Administration of Fitness and Sport.** The focus of this course is on "working with people". Students learn the theory and practice of team building, communication and counselling skills. Three lecture hours per week. One term.

*Prerequisite:* Students must be in the Sport Administration Certificate program or the Fitness Assessment and Exercise Counselling Certificate program. Other students may be accepted with the permission of the course director.

*Degree credit exclusion:* AS/PHED 2420 3.0.

**AS/KINE 3250 3.0 Business Management in Sport, Fitness and Allied Health.** An overview of the key business management practices in the sport, fitness and allied health fields. The main emphasis is the development of an understanding of the theory, practices and skills which are essential to effective management. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/KINE 1000 4.0, AS/SC/KINE 1020 4.0.

*Degree credit exclusions:* AS/KINE 4430 3.0. Not open to students enrolled in the Fitness Assessment and Exercise Counselling Certificate program or the Sport Administration Certificate program.

**AS/SC/KINE 3340 3.0 Growth, Maturation and Physical Activity.** The major purpose of this course is to examine and discuss the literature and research studies in those aspects of physical growth and development that directly concern educators. Individual differences in growth and development are stressed throughout. Three lecture hours per week. One term.

*Degree credit exclusion:* AS/SC/PHED 3340 3.0.

**AS/SC/KINE 3350 3.0 Physical Activity, Health and Aging.** The course examines the aging process, lifestyle changes and the effect of physical activity on the health of aging adults. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/KINE 1020 4.0; AS/SC/KINE 2020 3.0.

*Note:* Internet use is required for this course.

**AS/SC/KINE 3400 3.0 Current Trends in Fitness Assessment and Exercise Leadership.** Detailed theoretical and practical instruction on exercise leadership and the administration and interpretation of the Canadian Physical Activity Fitness and Lifestyle Appraisal

with a focus on health-related fitness. Two lecture hours and two laboratory hours per week. One term.

*Prerequisites:* AS/SC/KINE 1020 4.0; AS/SC/KINE 2031 3.0; AS/SC/PKIN 7500 2.0; permission of the course director.

*Corequisite:* AS/SC/KINE 3011 3.0.

*Degree credit exclusion:* AS/SC/PHED 3400 3.0.

**AS/KINE 3420 6.0 Creativity in Dance.** This course develops creative approaches in dance through technical training and improvisational sessions. Key topics include an awareness of movement, critical analysis of movement forms and techniques, personal development of rhythm, space, design, energy flow and expression. Four combined lecture and studio hours per week. Two terms.

*Degree credit exclusion:* AS/PHED 3420 6.0.

**AS/KINE 3430 3.0 Sports in Canadian Life.** An historical examination of sports in Canadian society, including their origin, introduction to North America and development in Canada up to the present. The influence of Canadian culture as a whole on the development of the selected sports is considered. Three lecture hours per week. One term.

*Degree credit exclusion:* AS/PHED 3430 3.0.

**AS/KINE 3440 3.0 International Physical Education and Sport.** A comparative analysis of recent developments and characteristics of physical education and sports in representative nations and world regions. The course covers objectives, methods, personnel and facilities in physical education, and evaluation of selected national sports programs. Three lecture hours per week. One term.

*Degree credit exclusion:* AS/PHED 3440 3.0.

**AS/SC/KINE 3450 3.0 Athletic Injuries.** An introductory examination of prevention, recognition and treatment of common athletic injuries. Follow-up remedial procedures and therapeutic modalities to enhance healing are also studied. Two lecture hours and two laboratory hours per week. One term.

*Prerequisite:* AS/SC/KINE 2031 3.0.

*Degree credit exclusion:* AS/SC/PHED 3450 3.0.

**AS/SC/KINE 3460 3.0 Regional Human Anatomy I.** A comprehensive study of the structures of the human body. This course includes an examination of the upper limb, lower limb and back. Two lecture hours and two laboratory hours per week. One term.

*Prerequisite:* AS/SC/KINE 2031 3.0.

*Degree credit exclusion:* AS/SC/PHED 3460 3.0.

**AS/SC/KINE 3465 3.0 Regional Human Anatomy II.** This course examines, in detail, the anatomical regions of the head, neck, back and thorax. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 2031 3.0.

*Degree credit exclusion:* AS/SC/KINE 3050C 3.0.

**AS/SC/KINE 3470 3.0 Muscle and Joint Biomechanics.** Quantitative biomechanical principles are used to evaluate the production of human motion at the joint and muscle level. Factors affecting total joint moment of force are studied including muscle mechanics, muscle architecture, moment arm and electrophysiology. Two lecture hours and two laboratory hours per week. One term.

*Prerequisite:* AS/SC/KINE 3030 3.0.

*Degree credit exclusion:* AS/SC/KINE 3050E 3.0 (Fall/Winter 2000-2001).

**AS/SC/KINE 3480 3.0 Outdoor and Experiential Education.** This course introduces fundamental principles and practices of outdoor and experiential education. Current theories, issues, trends and practices are discussed and the objectives of a range of outdoor programs are considered. Three lecture hours per week. One term.

*Degree credit exclusion:* AS/SC/PHED 3480 3.0.

**AS/KINE 3490 3.0 Politics and Policy in the Sport Industry.** Discussions about power, politics and ethics as they relate to current sport policy issues are explored. Policy development and policy analysis skills are learned and applied to issues in professional sport, amateur sport and university athletics. Three lecture hours per week. One term.

*Degree credit exclusion:* AS/PHED 3490 3.0.

**AS/KINE 3510 3.0 Sport Marketing and Event Management.** The purpose of this course is to provide students with both the theory and practical skills required to organize and manage events. Additionally, students have the opportunity to learn from professionals working in the field. Three lecture hours per week. One term.

*Degree credit exclusion:* AS/PHED 3510 3.0.

**AS/KINE 3530 3.0 Theories of Play.** A critical analysis of definitions, concepts, philosophies and assumptions of classical, recent and modern theories of play with implications for macro- and micro-programming and planning for play service systems. Three lecture hours per week. One term.

*Prerequisite:* A 1000-level Social Science course.

*Degree credit exclusion:* AS/PHED 3530 3.0.

**AS/KINE 3540 3.0 Play Environments.** The role of play environments from both a macro- and micro-theoretical and applied perspective. How does the cultural, political, economic, ecological and psycho-social environment shape play behaviour? Three hours per week. One term.

*Degree credit exclusion:* AS/PHED 3540 3.0.



### AS/SC/KINE 3570 3.0 Theory and Methodology of Training.

The course provides an intensive examination of the scientific and methodological theories, techniques and planning methods utilized in the training of the skilled athlete, with practical application to selected sports. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/KINE 1000 4.0; AS/SC/KINE 1020 4.0.

*Degree credit exclusion:* AS/PHED 3570 3.0.

### AS/KINE 3580 3.0 Coaching: The Strategy and Tactics of Sport.

This course investigates the conceptual basis of strategic and tactical planning for sports performance. An emphasis is placed on analyzing the variety of sources that contribute to the conceptual framework a coach may use in formulating strategic and tactical plans. Three lecture hours per week. One term.

*Prerequisites or corequisites:* AS/SC/KINE 3570 3.0; AS/SC/KINE 3610 3.0.

*Degree credit exclusion:* AS/PHED 3580 3.0.

### AS/SC/KINE 3585 3.0 Clinical Placement in Sport Therapy.

This course provides students with the opportunity to gain practical experience in clinical situations within the profession of athletic therapy. Students integrate theory and practice in actual workplace situations by working directly with sports medicine specialists. Ten hours clinical placement per week, five one-and-a-half hour seminars. One term.

*Prerequisites:* Open only to Athletic Therapy Certificate students, with permission of the Athletic Therapy Program coordinator.

### AS/SC/KINE 3600 3.0 Sport Therapy II.

This course provides students with a broad spectrum of knowledge relating to the physiological and pathological aspects of participation in sport with an emphasis on detection and human factors in injury prevention and remediation. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 2490 3.0.

*Degree credit exclusion:* AS/SC/PHED 3600 3.0.

### AS/SC/KINE 3610 3.0 Coaching: Psychological and Sociological Aspects.

The course focuses upon the application of principles of psychology to coaching. An examination of philosophy of coaching, legal liability, socialization and team dynamics is also undertaken with a view to establishing effective coaching methodology. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/KINE 2031 3.0; AS/SC/KINE 2475 3.0; AS/SC/PSYC 1010 6.0.

*Degree credit exclusions:* AS/SC/PHED 2470 6.0, AS/SC/PHED 3610 3.0.

### AS/KINE 3620 3.0 Sociology of Sport I.

Sociological analysis of sport in contemporary society with particular emphasis on issues relating to children, gender and the Canadian scene. Three lecture hours per week. One term.

*Degree credit exclusions:* AS/SC/PHED 3620 3.0, AS/SOCI 3670 3.0.

### AS/KINE 3630 3.0 Race and Sport.

The purpose of the course is to explore the concepts of "race" and its ideologies applied to sport, the unique conditions of minority athletes, and historical transformations. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 1000 4.0 or AS/SC/KINE 2010 3.0.

### AS/SC/KINE 3640 3.0 Epidemiology of Physical Activity, Fitness and Health.

This course provides an in-depth assessment of the epidemiology of physical activity, fitness and health. General concepts of epidemiology are covered, as well as associations among activity, exercise, fitness and disease/risk factors. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 2020 3.0.

*Degree credit exclusion:* AS/SC/KINE 3050B 3.0.

### AS/SC/KINE 3645 3.0 Physical Activity and Health Promotion.

This course explores social marketing techniques and strategies in the promotion of physical activity and health from a public policy perspective. Exploring the scientific rationale and justification for workplace and community-based physical activity and lifestyle programs is emphasized. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/KINE 1020 4.0; AS/SC/KINE 2020 3.0.

### AS/KINE 3650 3.0 Gender and Sport.

This course examines sociohistorical links between gender and social power expressed in sporting contexts, normally considered a male domain. The resistance to such notions by women and girls challenges received values, practices and scholarship. Does any sport have a gender? Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 1000 4.0 or AS/SC/KINE 2010 3.0.

*Degree credit exclusions:* AS/KINE 4350 6.0, AS/PHED 4350 6.0.

### 4000-Level Courses

*Note:* Only Honours-standing students may register in 4000-level Kinesiology and Health Science courses.

### AS/SC/KINE 4010 3.0 Physiology of Exercise.

The study of the physiological mechanisms involved during physical activity. The course covers the physiological effects of exercise and training upon the neuromuscular, cardiovascular, respiratory and metabolic systems. Three lecture hours per week, two laboratory/tutorial hours in alternate weeks. One term.

*Prerequisites:* AS/SC/KINE 3011 3.0; AS/SC/KINE 3012 3.0.

### AS/SC/KINE 4020 3.0 Human Nutrition I.

Basic energy and regulatory nutrients are examined, followed by an applied nutrition section in weight control, eating disorders,

sport nutrition, food as drugs and food safety. Metabolic interrelationships and health associations are applied throughout. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/KINE 2020 3.0; AS/SC/KINE 3011 3.0.

*Degree credit exclusions:* AS/SC/KINE 3080 3.0, AS/SC/KINE 4470 3.0, AS/SC/PHED 3080 3.0, AS/SC/PHED 4470 3.0.

### AS/SC/KINE 4050 3.0/4050 6.0 Special Topics.

Seminars in specialized subjects are offered by members of the School of Kinesiology and Health Science, as announced annually. Not all special topics courses are eligible for Science (SC) credit.

### AS/SC/KINE 4060 3.0/4060 6.0 Independent Studies in Kinesiology and Health Science.

Students undertake a research project under the supervision of a faculty member. This should include a library investigation, and may include laboratory and/or field investigations. A substantial paper, a poster presentation and an oral presentation are part of the course requirements.

*Prerequisite:* Normally only available to students after completion of 84 credits.

*Note:* See the Faculty of Arts section of this Calendar for Faculty of Arts regulations on "Independent Reading Courses". Not all Independent Studies topics are eligible for Science (SC) credit.

### AS/KINE 4350 3.0 Women and Sport in the 20th Century.

This course examines the accelerating emergence of women and girls in sport traditionally organized as exclusive male domain. The dynamics between women's aspirations in competitive sport, and cultural/systemic barriers to equality, are studied. Three lecture/discussion hours per week. One term.

*Prerequisites:* AS/SC/KINE 1000 4.0 or AS/SC/KINE 2010 3.0; AS/SC/KINE 3650 3.0.

*Degree credit exclusions:* AS/KINE 4350 6.0, AS/PHED 4350 6.0.

*Note:* Internet use is required for this course.

### AS/SC/KINE 4400 6.0 Advanced Fitness/Lifestyle Assessment and Counselling.

Students receive supervised, practical experience in designing, administering and interpreting fitness assessments along with the follow-up exercise counselling for athletes and the general public. Two lecture hours and three laboratory hours per week. Two terms.

*Prerequisites:* AS/SC/KINE 3400 3.0; permission of the course director. Open only to students in the Certificate program in Fitness Assessment and Exercise Counselling.

*Prerequisite or corequisite:* AS/SC/KINE 4010 3.0.

### SC/KINE 4410 3.0 Cellular and Molecular Physiology for the Health Sciences.

An overview of mammalian gene expression, membrane biochemistry, molecular neuroscience and techniques in molecular biology, with an emphasis on health, disease, exercise and adaptation. Three lecture hours per week. One term.



*Prerequisite:* AS/SC/KINE 3012 3.0.

*Degree credit exclusion:* AS/SC/KINE 4448 3.0.

**AS/KINE 4420 3.0 Relaxation: Theory and Practice.** This course focuses on an understanding of the physiological and psychological basis of relaxation as a self-management procedure and in the utilization of relaxation strategies in sport, health and physical activity. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/KINE 2031 3.0; AS/SC/KINE 3011 3.0; AS/SC/KINE 3012 3.0; or permission of the course director.

**AS/SC/KINE 4421 3.0 Relaxation II: Research and Application.** This course reviews the research and application of self-regulation strategies (relaxation, biofeedback, imagery, cognitive restructuring and attention control) for performance and health enhancement. Three lecture hours per week. One term.

*Prerequisite:* AS/KINE 4420 3.0.

**AS/KINE 4430 3.0 Business Skills for Sport and Fitness Professionals.** This course includes theory and detailed practical instruction about key management/organizational processes and their successful application to sport and fitness-related business initiatives. Three lecture hours per week. One term.

*Prerequisite:* Students must be in the Sport Administration Certificate program or the Fitness Assessment and Exercise Counselling Certificate program.

*Degree credit exclusions:* AS/KINE 3250 3.0, AS/PHED 4430 3.0.

**AS/SC/KINE 4440 3.0 Advanced Exercise Physiology I: Muscle.** Advanced topics in exercise physiology and biochemistry, including energy metabolism, fatigue, skeletal muscle physiology, adaptations to exercise and training. Applications of exercise to disease states, animal laboratories and discussions of original research articles in exercise physiology. Three class hours (lectures/laboratories/tutorials) per week. One term.

*Prerequisite:* AS/SC/KINE 4010 3.0.

**AS/SC/KINE 4445 3.0 Physiological Basis of Fatigue.** An in-depth examination of the physiological processes that limit muscular exercise. Topics include cellular and metabolic failure in sustained muscular contractions, central nervous system limitations, substrate depletion and product accumulation, body fluid shifts and adaptations that forestall fatigue. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/KINE 3011 3.0; AS/SC/KINE 3012 3.0; AS/SC/KINE 4010 3.0.

**AS/SC/KINE 4448 3.0 Advanced Human Physiology: Endocrinology.** An overview of human endocrinology at the physiological, biochemical and molecular levels, with an emphasis on health, disease, exercise and adaptation. Three hours per week. One term.

*Prerequisite:* AS/SC KINE 4010 3.0.

*Degree credit exclusions:* SC/KINE 4410 3.0, SC/BIOL 4320 3.0.

**AS/SC/KINE 4450 3.0 Advanced Exercise Physiology II: Cardiovascular.** An overview of the cardiovascular physiology of exercise at both the central (heart) and peripheral (blood vessels, capillaries) levels, with an emphasis on health, disease, exercise and adaptation. Physiology adaptations at the molecular level are emphasized. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 4010 3.0.

**AS/SC/KINE 4451 3.0 Advanced Biomechanical Analysis of Human Movement (Part I - Kinematics).** An examination of human motion, including the fundamentals of motion description, mechanics, and investigative techniques in biomechanics with an emphasis on the kinematics of movement. Special topics and problems relevant to students' interests are covered in seminars and small group laboratory sessions. Two lecture hours per week, plus laboratory hours. One term.

*Prerequisite:* AS/SC/KINE 3030 3.0.

*Degree credit exclusion:* AS/SC/PHED 4450 6.0.

**AS/SC/KINE 4452 3.0 Advanced Biomechanical Analysis of Human Movement (Part II - Kinetics).** An examination of human motion, including the fundamentals of motion description, mechanics, and investigative techniques in biomechanics with an emphasis on the kinetics of movement. Special topics and problems relevant to students' interests are covered in seminars and small group laboratory sessions. Two lecture hours per week, plus laboratory hours. One term.

*Prerequisite:* AS/SC/KINE 4451 3.0.

*Degree credit exclusion:* AS/SC/PHED 4450 6.0.

**AS/SC/KINE 4460 3.0 Occupational Biomechanics.** (formerly AS/SC/KINE 4050A 3.0 — before 1999-2000) Use of biomechanics in the occupational setting is introduced. Topics include workplace assessment techniques, injury mechanisms, tissue mechanics, and the (re)design of tools and workplace. Specific disorders and issues involving the upper extremity and lower back are addressed. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 3030 3.0.

*Degree credit exclusion:* AS/SC/KINE 4050A 3.0.

**AS/KINE 4480 3.0 Sociology of Sport II.** This course focuses on social problems in sport. Topics include inequality, sport as work, sport as a spectacle, and sport and the state. Three lecture hours per week. One term.

*Prerequisite:* AS/KINE 3620 3.0 or permission of the course director.

*Degree credit exclusion:* AS/PHED 4480 3.0.

**AS/KINE 4490 3.0 Philosophy and Issues in Physical Education and Sport.** Examination of the philosophical foundations of physical education; their manifestation and other influences on development of physical education programs; identification and critical analysis of current issues in physical education and sport. Three lecture hours per week. One term.

*Prerequisites:* 90 academic credits completed; permission of the course director.

**AS/SC/KINE 4500 3.0 Neural Control of Movement.** Current experimental and theoretical issues relevant to motor control and motor learning, including the role of perception in sensory-motor coordination. Two lecture hours and two laboratory hours per week. One term.

*Prerequisite:* AS/SC/KINE 3020 3.0 or permission of the course director.

**AS/SC/KINE 4510 3.0 Cellular and Molecular Basis of Muscle Physiology.** Topics include muscle development, muscle-specific gene expression, molecular basis of muscle contraction, biochemical plasticity of muscle, sarcolemmal and nuclear signal transduction in muscle. Three lecture hours per week. One term.

*Cross-listed to:* SC/BIOL 4510 3.0.

*Prerequisite(s):* AS/SC/KINE 3011 3.0, or both SC/BIOL 2020 4.0 and SC/BIOL 2021 4.0.

*Degree credit exclusions:* AS/SC/PHED 4510 3.0, SC/BIOL 4510 3.0.

**AS/SC/KINE 4520 3.0 Advanced Seminar in Sport Psychology.** The course provides an in-depth examination of selected topics in sport psychology: motivation, imagery, self-regulation and attention. The emphasis is on the application of mental training skills in sport settings. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 3090 3.0 or permission of the course director.

*Degree credit exclusion:* AS/SC/PHED 4520 3.0.

**AS/KINE 4530 3.0 Sport Administration Fieldwork Placement.** Students spend a minimum of 40 hours working in an administrative setting related directly to the area of sport administration. The practical experience is supported by lectures, seminars, reports and readings. Three hours per week. One term.

*Prerequisites:* AS/KINE 3490 3.0; students must be in the Sport Administration Certificate program.

*Degree credit exclusion:* AS/PHED 4530 3.0.

**AS/SC/KINE 4545 6.0 Sport Administration Applied Research Perspectives.** This course provides students with an overview of selected current issues facing organizations in the sport industry as well as a grounding in social research methods. Students conduct applied research addressing problems faced by sport organizations. Three lecture hours per week. Two terms.

*Prerequisites:* AS/SC/KINE 2050 3.0 or equivalent; AS/KINE 2380 3.0; AS/KINE 3240 3.0; AS/KINE 3490 3.0; AS/KINE 3510 3.0.

**AS/SC/KINE 4550 6.0 Coaching Field Experience.** The student works with a mentor coach for a complete sport season and submits a comprehensive log book. The field experience includes physiological testing, videotape analysis and three other coaching tasks. Three hours per week. Two terms.

*Prerequisites or corequisites:* AS/SC/KINE 4610 3.0. *Open only to students in the Coaching Certificate program.*

**AS/KINE 4560 3.0 Physical Activity and Children: Pedagogy.** This course examines teaching methods available for people working in a physical activity setting with children. Emphasis is placed on the core program components of dance, games and gymnastics. Curriculum and lesson planning for school based physical education is included. Two lecture hours and two laboratory hours per week. One term.

*Prerequisite:* AS/SC/KINE 3340 3.0.

*Degree credit exclusion:* AS/KINE 3520 6.0.

**AS/SC/KINE 4570 3.0 Sports Injury Assessment.** An advanced course in the recognition and assessment of common athletic injuries. The course emphasizes a detailed understanding of surface anatomy and landmarking, injury mechanics and assessment techniques, and the implications of injury to a body part. Two lecture hours and one laboratory session per week. One term.

*Prerequisites:* AS/SC/KINE 3450 3.0; AS/SC/KINE 3600 3.0; *current CPR and First Aid; clinical and field experience. Open only to students in the Athletic Therapy Certificate stream.*

*Prerequisite or corequisite:* AS/SC/KINE 3460 3.0.

*Degree credit exclusion:* AS/SC/PHED 4570 3.0.

**AS/SC/KINE 4580 3.0 Treatment and Rehabilitation of Sports Injuries.** An advanced course in the treatment and rehabilitation of common athletic injuries including generalized body reactions to injury, specific tissue responses to trauma, the immediate treatment of injuries, the long-term rehabilitation of injuries, and the use of modalities. Two lecture hours and two laboratory hours per week. One term.

*Prerequisites:* AS/SC/KINE 4570 3.0; *current CPR and First Aid; clinical and field experience. Open only to students in the Athletic Therapy Certificate stream.*

*Degree credit exclusion:* AS/SC/PHED 4580 3.0.

**AS/SC/KINE 4590 6.0 Sport Therapy Seminar.** An advanced-level course in Athletic Therapy applying theoretical background to sport-related injuries and rehabilitation. Two seminar hours per week plus extra out-of-class hours. Two terms.

*Prerequisites:* AS/SC/KINE 3450 3.0; AS/SC/KINE 3460 3.0; AS/SC/KINE 3600 3.0; AS/SC/KINE 4570 3.0; AS/SC/KINE 4580 3.0. *Open only to students in the Athletic Therapy Certificate stream or with permission of the course director.*

*Prerequisite or corequisite:* AS/SC/KINE 3585 3.0.

**AS/SC/KINE 4595 3.0 Ethics for Kinesiology and Health.** This course provides grounding in ethical theories and approaches, and applies ethical paradigms to issues in kinesiology and health science. Two lecture hours and one seminar hour per week. One term.

*Prerequisite:* AS/SC/KINE 1000 4.0.

**AS/SC/KINE 4600 3.0 Coaching: Science and Methodology.** The course focuses on coaching methodology and scientific principles applied to coaching. Methodology includes planning, conducting and evaluating training sessions, and time, stress and team management. Systems of training, scientific conditioning methods and other influences on conditioning and performance are included. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/KINE 3011 3.0 or AS/SC/KINE 3070 3.0; AS/SC/KINE 3610 3.0.

*Degree credit exclusion:* AS/SC/PHED 2470 6.0.

*Note: Levels I, II and III Theory of the National Coaching Certification program are granted with the successful completion of AS/SC/KINE 3610 3.0 and AS/SC/KINE 4600 3.0.*

**AS/SC/KINE 4610 3.0 Advanced Coaching Seminar.** The course consists of selected topics in coaching. A review of the literature with an application to coaching is presented from the areas of psychology, physiology, sociology, sports management etc. Guest lecturers and symposiums are featured. Three hours per week. One term.

*Prerequisites:* AS/SC/KINE 3610 3.0; AS/SC/KINE 4600 3.0.

**AS/KINE 4620 3.0 Counselling Skills for Kinesiology and Health Science.** This course provides a theoretical basis of behaviour, attitude change and motivation as it pertains to fields related to kinesiology and health science. Practice of the counselling skills with supervised auditory and visual feedback is provided. Two lecture hours and one tutorial hour per week. One term.

*Prerequisite:* AS/SC/PSYC 1010 6.0.

*Degree credit exclusion:* AS/PHED 4620 3.0.

**AS/KINE 4630 3.0 The Olympic Movement and Its Influence on Canadian Sport.** This course analyzes the historical origin and evolution of the world's largest sport spectacle. The Olympics have blended political games and secularized ideals with athletics. Students assess the consequences of its domination over Canadian high-performance sport. Three lecture hours per week. One term.

*Prerequisites:* AS/KINE 3430 3.0; AS/KINE 3440 3.0.

*Degree credit exclusion:* AS/PHED 4630 3.0.

**AS/SC/KINE 4640 3.0 Lifestyle and Current Health Issues.** This course explores the relationship between health knowledge, health attitudes and health actions of individuals in modern society. Decision-making processes are investigated relative to levels of growth and development and the quality of interactions in a variety of environments. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 2020 3.0.

*Degree credit exclusion:* AS/SC/PHED 4640 3.0.

**AS/SC/KINE 4660 3.0 Exercise and Addictive Behaviours.** This course examines a variety of topics in the area of exercise and health psychology with a particular emphasis on the adaptive and maladaptive aspects of exercise, as well as on issues concerning body image, food intake and eating disorders. Three lecture hours per week. One term.

*Prerequisites:* AS/SC/PSYC 1010 6.0; AS/SC/KINE 2020 3.0.

**AS/SC/KINE 4710 3.0 Psychology of Health and Chronic Disease.** This course explores the role of psychological variables in the development, progression and treatment of chronic diseases such as coronary heart disease, cancer and AIDS. Other critically reviewed topics include stress, substance abuse (smoking and alcohol), and injury and violence. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/PSYC 1010 6.0.

*Degree credit exclusions:* AS/SC/KINE 4050D 3.0, AS/SC/PSYC 3440 3.0.

**AS/SC/KINE 4800 3.0 Human Cadaver Dissection.** (formerly AS/SC/KINE 4050B 3.0 — before Summer 2000) Human cadaver dissection is a laboratory course in which students dissect an anatomical region on a human cadaver. Twenty hours of supervised instruction; 40 hours of self-directed dissection. One term.

*Prerequisites:* AS/SC/KINE 2031 3.0; AS/SC/KINE 3460 3.0; AS/SC/KINE 3465 3.0.

*Degree credit exclusion:* AS/SC/KINE 4050B 3.0.

*Note: This course is held off-campus. Consult the Kinesiology and Health Science program for further details.*

**AS/SC/KINE 4900 3.0 Exercise Therapy for Chronic Diseases.** An overview of the use of exercise and physical activity in the evaluation and treatment of a variety of chronic diseases and disabilities. Three lecture hours per week. One term.

*Prerequisite:* AS/SC/KINE 4010 3.0.

*Degree credit exclusions:* AS/SC/KINE 4050E 3.0 (Fall/Winter 2000-2001).

## Kinesiology and Health Science Practicum Program

All students enrolled in Kinesiology and Health Science programs must complete the practicum core, which consists of two practicum credits in each of the following six areas: gymnastics/

dance, aquatics, team sports, individual and dual sports, track and field, and emergency care, for a total of 12 practicum credits. Students in the Health and Kinesiology Stream must complete an additional six credits for a total of 18 practicum credits. Students in the Applied Certificate Stream must complete an additional four credits for a total of 16 practicum credits. A detailed description of the course offerings and requirements is available from the School of Kinesiology and Health Science.

### Practicum Course List

While practicum courses are required of all Kinesiology and Health Science students in order to graduate, they are not applied towards the academic degree requirements in Kinesiology and Health Science.

In the case of practicum courses, the first digit of the course number indicates the practicum area, not the level of the course. The number which follows the four-digit course number in this Calendar indicates the number of practicum credits in the course. One practicum credit represents a total of 12 contact hours of sports activity or equivalent.

Practicum courses provide professional preparation for Kinesiology and Health Science students and as such may require vigorous physical activity. It is strongly recommended that every student in the practicum program have a medical examination prior to participating. Students with disabilities are considered on a case-by-case basis.

Practicum courses are open to both men and women unless otherwise specified.

### Gymnastics Courses

AS/SC/PKIN 1000 2.0 Basic Gymnastics.  
AS/SC/PKIN 1001 2.0 Gymnastics I.  
AS/SC/PKIN 1040 2.0 Rhythmic Gymnastics I. (Women)  
AS/SC/PKIN 1900 2.0/1900 3.0/1900 4.0/1900 6.0 Special Topics: Gymnastics.

### Aquatics Courses

AS/SC/PKIN 2000 2.0 Swimming I.  
AS/SC/PKIN 2010 2.0 Swimming II.  
AS/SC/PKIN 2040 2.0 Lifesaving I.  
AS/SC/PKIN 2050 2.0 Lifesaving II: Advanced Lifesaving.  
AS/SC/PKIN 2060 4.0 Lifeguarding.  
AS/SC/PKIN 2070 2.0 Skin and Scuba Diving.  
AS/SC/PKIN 2080 2.0 Synchronized Swimming I. (Women)  
AS/SC/PKIN 2090 4.0 Aquatic Instructor.  
AS/SC/PKIN 2900 2.0/2900 3.0/2900 4.0/2900 6.0 Special Topics: Aquatics.

### Team Sports Courses

AS/SC/PKIN 3000 2.0 Basketball I.  
AS/SC/PKIN 3010 2.0 Basketball II.  
AS/SC/PKIN 3040 2.0 Field Hockey I.  
AS/SC/PKIN 3050 2.0 Field Hockey II.  
AS/SC/PKIN 3080 2.0 Football I.  
AS/SC/PKIN 3090 2.0 Football II.  
AS/SC/PKIN 3120 2.0 Hockey I.  
AS/SC/PKIN 3130 2.0 Hockey II.  
AS/SC/PKIN 3240 2.0 Rugby I.  
AS/SC/PKIN 3280 2.0 Soccer I.  
AS/SC/PKIN 3290 2.0 Soccer II: Coaching.

AS/SC/PKIN 3320 2.0 Volleyball I.  
AS/SC/PKIN 3330 2.0 Volleyball II.  
AS/SC/PKIN 3360 2.0 Beach Volleyball I.  
AS/SC/PKIN 3400 2.0 Softball.  
AS/SC/PKIN 3500 2.0 Team Handball I.  
AS/SC/PKIN 3900 2.0/3900 3.0/3900 4.0/3900 6.0 Special Topics: Team Sports.

### Individual and Dual Sports Courses

AS/SC/PKIN 4000 2.0 Tai Chi I.  
AS/SC/PKIN 4010 2.0 Tai Chi II.  
AS/SC/PKIN 4020 2.0 Yoga I.  
AS/SC/PKIN 4030 2.0 Karate-Do I.  
AS/SC/PKIN 4040 2.0 Aikido Yoshinkan.  
AS/SC/PKIN 4100 2.0 Golf I.  
AS/SC/PKIN 4110 2.0 Golf II.  
AS/SC/PKIN 4150 2.0 Court Games.  
AS/SC/PKIN 4210 2.0 Squash II.  
AS/SC/PKIN 4350 2.0 Tennis I.  
AS/SC/PKIN 4360 2.0 Tennis II.  
AS/SC/PKIN 4370 2.0 Badminton I.  
AS/SC/PKIN 4380 2.0 Badminton II.  
AS/SC/PKIN 4500 2.0 Alpine Skiing I (Downhill).  
AS/SC/PKIN 4510 2.0 Alpine Skiing II (Downhill).  
AS/SC/PKIN 4520 2.0 Cross-Country Skiing I.  
AS/SC/PKIN 4530 2.0 Cross-Country Skiing II: Skating Technique.  
AS/SC/PKIN 4550 2.0 Mountain Biking.  
AS/SC/PKIN 4600 2.0 Strength Training  
AS/SC/PKIN 4900 2.0/4900 3.0/4900 4.0/4900 6.0 Special Topics: Individual Sports.

### Dance Courses

AS/SC/PKIN 5070 2.0 Ballroom Dance I.  
AS/SC/PKIN 5075 2.0 Ballroom Dance II.  
AS/SC/PKIN 5080 2.0 Folk and Social Dance.  
AS/SC/PKIN 5085 2.0 Country Dance.  
AS/SC/PKIN 5090 2.0 Jazz Dance I.  
AS/SC/PKIN 5110 2.0 Modern Dance I.  
AS/SC/PKIN 5200 2.0 African and Caribbean Dance.  
AS/SC/PKIN 5900 2.0/5900 3.0/5900 4.0/5900 6.0 Special Topics: Dance.

### Track and Field Courses

AS/SC/PKIN 6000 2.0 Track and Field I.  
AS/SC/PKIN 6010 2.0 Track and Field II.  
AS/SC/PKIN 6900 2.0/6900 3.0/6900 4.0/6900 6.0 Special Topics: Track and Field.

### Independent Studies Course

AS/SC/PKIN 7000 2.0 Independent Studies.

### Emergency Care Courses

AS/SC/PKIN 7500 2.0 Emergency Care I.  
AS/SC/PKIN 7600 2.0 Emergency Care II.

### Additional Courses

AS/SC/PKIN 8040 2.0 Elementary and Recreational Games.  
AS/SC/PKIN 8060 4.0 Personal Training.  
AS/SC/PKIN 8140 4.0 Outdoor Pursuits: Camping I.  
AS/SC/PKIN 8900 2.0/8900 3.0/8900 4.0/8900 6.0 Special Topics.

## Labour Studies – Arts

### Program Office (Division of Social Science):

S751 Ross 416-736-5054, 66272

### Coordinator of the Program:

J. Kainer, Social Science

Labour Studies explores the world of work and workers. Labour Studies graduates go on to further education and employment in the trade union movement, private industry, government service, journalism, social work, law, teaching and many other settings.

Labour Studies courses are offered in the Division of Social Science and elsewhere in the University. Students interested in majoring in Labour Studies register in an Honours Double Major Interdisciplinary BA program. Labour Studies is normally linked with another major in Anthropology, Economics, History, Political Science, Psychology, Sociology or Women's Studies. Links to certain other programs may be arranged.

After graduation, students may go on to postgraduate work in Labour Studies, Industrial Relations or Human Resource Management, or to professional training in Law and other fields.

Labour Studies majors are strongly encouraged to enrol in the Labour Studies Placement (AS/SOSC 4240 6.0) in their final year. This six-credit course offers mentoring and experiential learning in a trade union or other field-related setting.

Students majoring in Labour Studies should meet with the program coordinator each year to arrange their course selection. Students who do not attend advising appointments during the March/April advising period cannot be assured places in Labour Studies courses.

*Note: For specific program requirements, please consult the Faculty of Arts "Programs of Study" section. Not all courses listed in this section will necessarily be offered in any given year. Consult the division of Social Science's supplemental calendar for details on annual course offerings.*

### Divisional and Departmental Courses in Labour Studies

*Note: For purposes of meeting program requirements, all Foundations courses will count as six credits towards the major.*

### Core Courses (required):

AS/SOSC 2210 9.0 Labour Relations in Canada: An Introduction.  
AS/SOSC 4210 6.0 Collective Bargaining Simulation.

### Optional Labour Studies Courses (choose at least 12 credits from the following list):

AS/SOSC 3130 6.0 Women and Work: Production and Reproduction (Cross-listed to: AS/AK/GL/WMST 3510 6.0, AK/SOSC 3380 6.0).

AS/SOSC 3210 6.0 The Working Class in Canadian Society. (Cross-listed to: AS/HIST 3531 6.0)

AS/SOSC 3240 3.0 Labour and Globalisation I: North American Perspectives.

AS/SOSC 3241 3.0 Labour and Globalisation II: Comparative Perspectives.

AS/SOSC 3380 6.0 Law, Labour and the State.

AS/SOSC 3990C 3.0 Strategies of Social Science Research.

AS/SOSC 3990Q 3.0 Unions, Workers and Democracy.

**Optional Related Courses (choose no more than 12 credits; additional courses from "Optional Labour Studies" list may be substituted):**

#### Faculty of Arts

AS/ECON 3200 3.0 Industrial Organization.

AS/ECON 3240 3.0 Labour Economics: Theory.

AS/ECON 3250 3.0 Labour Economics: Institutions.

AS/HIST 4505 6.0 Canadian Labour and Immigration History (Cross-listed to GL/HIST 4220 6.0).

AS/POLS 4091 6.0 Contemporary Marxist Theory.

AS/POLS 4470 3.0 Working Class Politics in Capitalist Democracies (formerly AS/POLS 4710 3.0).

AS/PSYC 3570 3.0 Organizational Psychology.

AS/SOSC 3164 6.0 Occupational and Environmental Health.

AS/SOSC 4240 6.0 Labour Studies Placement.

AS/SOCI 3350 6.0 Social Movements.

AS/SOCI 3600 3.0 Sociology of Work and Industry.

AS/SOCI 3610 3.0 Sociology of Occupations and Professions.

AS/SOCI 3620 6.0 Formal Organizations.

#### Atkinson

AK/ADMS 3400 3.0 Occupational Health and Safety.

AK/ADMS 3480 3.0 Human Resource Management.

AK/ECON 3610 3.0 Labour Economics.

AK/ECON 3620 3.0 The Economics of Unemployment.

AK/ECON 4160 3.0 Theory and Practice of Arbitration.

AK/SOSC 3410 6.0 Work and the Workplace. (Cross-listed to: AK/SOCI 3390A 6.0)

#### Schulich School of Business

Any undergraduate Industrial Relations course (permission required).

Students are advised to check departmental and divisional calendars for up-to-date listings, descriptions and prerequisites, and to discuss current course offerings and program requirements with the Labour Studies program coordinator annually.

## Languages, Literatures and Linguistics – Arts

#### Department Office:

S561 Ross, 416-736-5016

#### Web Address:

<http://dlil.yorku.ca/languages.html>

#### Chair of the Department:

N. Elson

#### Professors:

M.B. Brown, S. Ehrlich, S. Embleton, G. Guy, R. King, D. Mendelsohn, R.W.F. Pope

#### Associate Professors:

W.P. Ahrens, E. Anderson, D. Armbrorst, R. Bahry, M. Bucccheri, E. Costa, J. Dingley, R. Fink, K.J. Golby, M. Lockshin, M. Magnotta, R.B. Marcus, B. Miller, J. Picchione, R. Sinyor, I. Smith, A. Testaferri, J. Viztmuller-Zocco, M.J. Webber

#### Assistant Professors:

P. Avery, P. Giordan, M. Jokiniemi, R. Scott, A. Shulman, V.G. Stephens

#### Associate Lecturers:

G. Colussi-Arthur, N. Elson, M. Frescura, L. Karumanchiri, I. Klein, N. Ota, L. Pietropaolo, P. Valle-Garay

#### Sessional Assistant Professor:

M. Noonan

#### Faculty Members Emeriti:

R. Belladonna, D. Holoch, M.L. Kay, L. Peña, H. Schueler, S.-Y. Tsau

The Department of Languages, Literatures and Linguistics offers courses in linguistics leading to an Honours BA or BA degree in Linguistics. For course listings in linguistics, please see the *Linguistics* section. For specific requirements of these programs, please consult the Faculty of Arts "Programs of Study" section.

## Courses in Language, Literature and Culture

*Note: For specific requirements of degree programs in German, Italian, Russian and Spanish, please consult the Faculty of Arts "Programs of Study" section of this Calendar.*

*Note: For specific requirements of Certificate programs in German, Hebrew and Judaic Studies, Italian, Japanese, Russian and Teaching English to Speakers of Other Languages (TESOL), please consult the Faculty of Arts "Programs of Study" section of this Calendar or the departmental supplemental calendar.*

### General Regulations

#### 1. Entry to Language Courses

Any student may enrol in a language course at any level, subject to the conditions enumerated below.

a) Admission to a student's first course in a language at York is by placement questionnaire and/or interview, or departmental authorization slip.

b) In most cases, students who have completed a 1000-level language course with a grade of at least C are automatically admissible to a course at the next level in the

same language, but may be pre-tested for purposes of course or section placement.

c) Registration in any language course may be limited at the discretion of the department.

d) Students intending to major or minor in German, Italian, Russian, or Spanish are encouraged to begin study of the relevant language in their first year.

### 2. Credit for Language Courses

A language course may be taken for credit in any year of any undergraduate program. Credit is given for a course if a grade of D or better is achieved. However, to advance from one level to another level, a student must achieve at least a grade of C.

### 3. Entry to departmental literature and culture courses, and to the degree programs in Greek and Latin Literature

a) In literature and culture courses of the department instruction is normally given in the relevant language, and entry to courses and programs depends upon the student's ability to function in that language. The department may require a student to demonstrate language competence before granting admission to a course. For details, please consult the department's supplemental calendar.

b) For regulations concerning entry to courses in Greek or Latin literature, consult a member of the Program in Classical Studies.

*Note: Not all courses will necessarily be offered in any given year; consult the department's supplemental calendar for details of courses to be offered.*

*Note: For a list of Atkinson courses which are degree credit exclusions, students should consult the degree credit exclusion/equivalent tables in the Lecture Schedule or the departmental/divisional supplemental calendars.*

### I. American Sign Language

**AS/ASL 1000 6.0 American Sign Language, Level I: Introduction to Sign Language Studies.** American Sign Language (ASL) is a language with its own linguistic attributes and roots in the deaf community. Activities focus on using hands, face and other body parts to represent lexical and grammatical aspects of ASL, and on comprehension skills in elementary ASL-based conversation.

*Degree credit exclusion: AS/ASL 1800A 6.0.*

*Note: This course is offered in cooperation with the Deaf Education program in the Faculty of Education.*

**AS/ASL 2000 6.0 American Sign Language, Level II.** Activities include lessons on ASL II vocabulary, advanced sentence structures, manual and non-manual grammar, conversation strategies, development of viewing and signing skills and familiarization with genres of ASL literature. By year-end, students will be able to discuss basic information in ASL.

*Prerequisite: AS/ASL 1000 6.0 or equivalent, or permission of the course director.*

*Degree credit exclusion: AS/ASL 2800A 6.0.*

*Note: This course is offered in cooperation with the Deaf Education program in the Faculty of Education.*

## II. Chinese

**AS/CH 1000 6.0 Elementary Modern Standard Chinese.** Presents three aspects of Modern Standard Chinese — pronunciation, grammar, writing system — using lectures, drills, audio tapes and interactive computer programs. Pinyin (Chinese romanization) is used in teaching. Students learn approximately 500 characters by the end of the course.

*Prerequisite: Permission of the department.*

*Language of instruction: Chinese.*

**AS/CH 2000 6.0 Intermediate Modern Standard Chinese.** Continues the work of AS/CH 1000 6.0 so that students can hold discussions on contemporary China and can read and write approximately 1100 characters.

*Prerequisite: AS/CH 1000 6.0 or permission of the department.*

*Language of instruction: Chinese.*

**AS/CH 2010 6.0 Chinese for Beginners With Background.** Students learn standard (Mandarin) pronunciation and the pinyin romanization system. They study basic conversational Chinese and learn to read and write enough Chinese characters to equip them for the third-year level.

*Prerequisite: Permission of the instructor. Not open to those with no Chinese-speaking experience or Chinese students with formal education in Chinese.*

*Language of instruction: Chinese.*

**AS/CH 2700 6.0 Introduction to Chinese Literature.** Surveys the many genres of Chinese literature from its origins to the present to show the evolution of the literary tradition and its interplay with history, philosophy and politics. Focus is on major works and how to discover their meaning.

*Prerequisite: None.*

*Language of instruction: English.*

**AS/CH 2730 6.0 Modern Chinese Fiction.** A brief survey of popular traditional narrative and an examination of 20th-century stories and novels from the end of the Qing dynasty through the Republican era. This includes the beginning and the end of bourgeois fiction in China as well as the continuation of more popular traditions. Readings, discussions and term work are in English.

*Prerequisite: None.*

*Language of instruction: English.*

**AS/CH 3000 6.0 Advanced Modern Standard Chinese.** Reading, writing, discussion, use of dictionaries and translation practice. The student should, with the aid of dictionaries, be able to read and translate newspaper articles from the People's Republic, modern fiction and non-specialist articles.

*Prerequisite: AS/CH 2000 6.0 or AS/CH 2010 6.0 or permission of the department.*

*Language of instruction: Chinese.*

**AS/CH 3010 6.0 Modern Standard Chinese for Speakers of Cantonese or other Dialects.** Training in the standard pronunciation, phonetic system and simplified script, and discussions of the debate on language reform and style, as embodied in the classics of modern vernacular literature.

*Prerequisite: Permission of the department; not open to speakers of Mandarin.*

*Language of instruction: Chinese.*

**AS/CH 3600 6.0 Lu Xun: Representative Works.** This course deals with the creative works of Lu Xun, China's leading 20th-century writer. It focuses on textual analysis of his short stories, prose poems and selected satirical essays. Modern Standard Chinese (Mandarin) is used in class.

*Prerequisites: AS/CH 3010 6.0 or AS/CH 3000 6.0 plus any of the 2000 level literature courses or permission of the department.*

*Language of instruction: Chinese.*

**AS/CH 3610 6.0 Oral Literature in Contemporary China.** This course explores the oral stream of Chinese literature, which has a long history and a growing audience. Students learn to appreciate and analyze such genres as storytelling, patternsongs, comic dialogues and monologues that are rarely studied outside China.

*Prerequisite: AS/CH 3010 6.0 or permission of the department.*

*Note: Classes are conducted in modern standard Chinese (Mandarin).*

*Language of instruction: Chinese.*

**AS/CH 3710 6.0 Women Writers in Modern China.** A study of the fiction of the major women writers from the literary revolution of the early 1920s to the present; the development of themes, forms and styles seen in the context of modern Chinese literature and against the background of China's patriarchal tradition.

*Prerequisite: Any 2000-level Chinese literature course or AS/HUMA 2930 6.0-AS/SOSC 2180 6.0.*

*Language of instruction: English.*

**AS/CH 3750 6.0 Order and Chaos in China and the West: Great Ideas of Two Civilizations.** Contrasting concepts — of the origin of civilization, of the forces of history, of humankind and nature, and of the relation between individual and state — are revealed by comparing texts of history, literature, science and philosophy basic to each world.

*Cross-listed to: AS/HUMA 3990G 6.0.*

*Prerequisite: None.*

*Language of instruction: English.*

**AS/CH 3790 6.0 Contemporary Chinese Culture Through Literary Texts and Film.** Primarily concentrating on representative "new wave" written works and films, this course explores the relationship between ideology

and art in postmodern China and stresses new literary/cinematic sensibilities in contemporary Chinese culture.

*Prerequisite: None.*

*Language of instruction: English.*

**AS/CH 4010 6.0 Translation: English-Chinese/Chinese-English.** The course emphasizes the development of written translation skills by considering English and Chinese texts in a range of topics and styles. Training in translation strategies enables the production of a text equivalent to the original meaning and style.

*Prerequisite: AS/CH 3000 6.0 or AS/CH 3010 6.0 or permission of the department.*

*Language of instruction: Chinese.*

**AS/CH 4712 6.0 Confucian or Daoist? The Skeptical Novel.** Two novels — traditional: *Rulin waishi (The Scholars)*, and early modern: *Laocan youji (Travels of Lao Ts'an)* — radically question the role of intellectuals and women in Chinese society. Comparison highlights the emergence of a modern worldview. Students may read in English or Chinese.

*Prerequisite: Any AS/CH 3000-level course or permission of the department.*

*Language of instruction: English.*

## III. English as a Second Language

**AS/ESL 1000 9.0 Canadian Language and Culture.** This course develops the linguistic/academic skills of students from English as a Second Language backgrounds, using themes such as, language and communication, culture and identity, the immigrant/refugee experience, multiculturalism, Canada's aboriginal peoples and Quebec. Course activities focus on developing English proficiency while exploring these themes. (This course is affiliated with Stong College.)

*Cross-listed to: AS/HUMA 1220 9.0.*

*Degree credit exclusions: AS/ESL 1000 6.0, AS/HUMA 1220 6.0.*

*Note: This course is normally open only to students in their first academic session.*

**AS/ESL 2000 6.0 English in Use.** This course provides opportunities for students to develop their English language skills while learning more about the varieties of written and spoken English. Students learn to analyze both spoken and written texts as connected discourse and become familiar with some of the ways in which literary and nonliterary texts can be examined.

*Prerequisite: AS/ESL 1000 9.0 or permission of the department.*

## IV. German

**AS/GER 1000 6.0 Elementary German.** In this course students acquire basic functional competence in oral and written German. This course also introduces students to aspects of contemporary German culture. No previous knowledge of German is assumed.

*Language of instruction: German.*

### AS/GER 1020 6.0 Elementary German for Reading Knowledge.

A study of German grammar with the aim of developing a reading knowledge of the language. Translation practice from German into English of texts drawn from a variety of disciplines. No previous knowledge of German is assumed.

*Note: This course does not qualify as a prerequisite for AS/GER 1050 6.0.*

*Language of instruction: English.*

### AS/GER 1050 6.0 Intermediate German.

This course continues the communicative approach used in AS/GER 1000 6.0 and helps students acquire a level of competence in oral and written German which enables them to function comfortably in a German speaking environment. The cultural component of the course is designed to broaden students' understanding of contemporary German society.

*Prerequisite: AS/GER 1000 6.0 or OAC-German (or equivalent, with appropriate score on departmental placement test).*

*Note: May be taken in conjunction with AS/GER 2200 6.0.*

*Language of instruction: German.*

### AS/GER 2040 6.0 Advanced German, Level I.

This course aims to develop further the student's ability to write and speak correct and idiomatic German. Through reading and discussion, in German, of materials on current affairs, the student is also given an understanding of the cultural context of modern German.

*Prerequisite: AS/GER 1050 6.0 or permission of the department.*

*Language of instruction: German.*

### AS/GER 2200 6.0 Introduction to German Literature and Culture.

An introduction to German literary texts in their cultural context. The course provides the basis for further work in German literature and the broader field of German Studies

*Prerequisite: AS/GER 1000 6.0 with a minimum grade of "B" and concurrent registration in AS/GER 1050 6.0; or AS/GER 1050 6.0, or permission of the department.*

*Degree credit exclusion: AS/GER 2201 6.0.*

*Note: Either AS/GER 2200 6.0 or AS/GER 2201 6.0 will count for major credit towards a degree in German Studies.*

*Note: Students have the option to write essays, assignments and tests in either English or German; however, students are required to write several assignments as well as respond to several test questions in German.*

*Language of instruction: German.*

### AS/GER 2201 6.0 Introduction to German Literature and Culture (in translation).

An introduction to German literary texts in their cultural context. The course provides the basis for further work in German literature and the broader field of German Studies.

*Prerequisite: No knowledge of German is necessary.*

*Degree credit exclusion: AS/GER 2200 6.0.*

*Language of instruction: English.*

*Note: AS/GER 2201 6.0 does not count for major/minor credit towards a degree in German. Either AS/GER 2200 6.0 or AS/GER 2201 6.0 will count for major credit towards a degree in German Studies.*

### AS/GER 3043 3.0 Advanced German, Level IIA.

Review of aspects of grammar and idiomatic expressions; introduction to the principles and practice of essay writing; oral reports on assigned readings on current affairs, with an emphasis of vocabulary building.

*Prerequisite: AS/GER 2040 6.0 or permission of the department.*

*Degree credit exclusion: AS/GER 3040 6.0.*

*Language of instruction: German.*

### AS/GER 3045 3.0 Advanced German, Level IIB.

Further review of aspects of grammar and idiomatic expressions; translation; class discussions on topics of general interest and current affairs, with an emphasis on vocabulary building.

*Prerequisite: AS/GER 3043 3.0 or permission of the department.*

*Degree credit exclusion: AS/GER 3040 6.0.*

*Language of instruction: German.*

### AS/GER 3100 3.0 German Regional Linguistic Varieties.

Different German regional linguistic varieties or dialects are examined and their similarities to and differences from modern standard German are analyzed. The course also gives an overview of the historical development of the German dialects.

*Prerequisite/corequisite: AS/GER 2040 6.0 or equivalent, or permission of the department.*

*Degree credit exclusion: AS/GER 4100 3.0.*

*Language of instruction: German.*

### AS/GER 3110 3.0 Syntactic Structure of Modern German.

Analysis of the linguistic structure of modern German, especially in contrast to the structure of English. Models used for analysis will be the Transformational and Case Grammar models.

*Prerequisite: AS/GER 2040 6.0 or equivalent, or permission of the department.*

*Degree credit exclusion: AS/GER 4110 3.0.*

*Language of instruction: German.*

### AS/GER 3130 3.0 Words and meaning in German and English.

This course deals with the elements of meaning: how they are combined into word-level structures in German and English and how words are structured as entries in bilingual dictionaries.

*Prerequisite/corequisite: AS/GER 2040 6.0 or equivalent, or permission of the department.*

*Language of instruction: German.*

### AS/GER 3310 3.0 A Survey of German Literature From 1400-1700.

The literature of German Humanism, from the Reformation period and from the time of the Thirty Years'

War. Representative authors such as Luther, Sachs, Gryphius, Lohenstein and Grimmelshausen will be studied.

*Prerequisite: AS/GER 2200 6.0 or permission of the department.*

*Degree credit exclusion: AS/GER 4310 3.0.*

*Language of instruction: German.*

### AS/GER 3580 6.0 German Prose and Poetry in the 19th and 20th Centuries.

Studies in the development of German prose and poetry from Hoffman to Günter Grass, including the works of such authors as Kleist, Heine, Thomas Mann, Hesse, Kafka and Rilke.

*Prerequisite: AS/GER 2200 6.0 or permission of the department.*

*Language of instruction: German.*

### AS/GER 3590 3.0 The German Drama in the Late 18th and the 19th Century.

A study of selected major dramas from Lessing to Hauptman, with attention to the development of the drama as a genre, and to the relation of the works to their historical background.

*Prerequisite: AS/GER 2200 6.0 or the permission of the department.*

*Language of instruction: German.*

### AS/GER 3600 3.0 Berlin in German Literature and Culture.

This course highlights the following periods in the story of modern Berlin: "Golden Twenties": 1945 and the end of Hitler's Reich; 1949-1989, when as a divided city, Berlin was caught in the tug-of-war between East and West; and the present "post-wall" period in which it is the capital of a united Germany.

*Cross-listed to: AS/HUMA 3600 3.0.*

*Prerequisite: AS/GER 2200 6.0 or permission of the department.*

*Degree credit exclusion: AS/GER 4600 3.0.*

*Language of instruction: English.*

### AS/GER 3610 3.0 The German Drama in the 20th Century.

A study of major dramas from Wedekind to Brecht, with attention to the development of the drama as a genre, and to the relation of the works to their historical background.

*Prerequisite: AS/GER 2200 6.0 or permission of the department.*

*Degree credit exclusion: AS/GER 4610 3.0.*

*Language of instruction: German.*

### AS/GER 3660 3.0 The German Drama and Radio Play (since 1945).

The development of the drama and radio play in all German speaking areas since the end of the Second World War.

*Prerequisite: AS/GER 2200 6.0 or permission of the department.*

*Degree credit exclusions: AS/GER 3800B 3.0, AS/GER 4800B 3.0 (effective Fall/Winter 2000).*

*Language of instruction: German.*

### AS/GER 3670 3.0 Contemporary German Prose and Poetry (since 1945).

The development of German prose and poetry in all German speaking areas since the end of the Second World War.

*Prerequisite:* AS/GER 2200 6.0 or permission of the department.

*Degree credit exclusions:* AS/GER 3800B 3.0 and AS/GER 4800B 3.0 (effective Fall/Winter 2000).

*Language of instruction:* German.

### **AS/GER 3790 6.0 Germany in Film: Literary and Historical Perspectives.**

This course examines major films of contemporary German cinema, including screen adaptations of works of German literature and films that address central concerns of recent German history

*Cross-listed to:* AS/HUMA 3990K 6.0.

*Prerequisite:* None.

*Language of instruction:* English.

### **AS/GER 4100 3.0 German Regional Linguistic Varieties.**

Different German regional linguistic varieties or dialects are examined and their similarities to and differences from modern standard German are analyzed. The course also gives an overview of the historical development of the German dialects.

*Prerequisite/corequisite:* AS/GER 3043 3.0 and AS/GER 3045 3.0 or equivalent, or permission of the department.

*Degree credit exclusion:* AS/GER 3100 3.0.

*Language of instruction:* German.

### **AS/GER 4110 3.0 Syntactic Structure of Modern German.**

Analysis of the linguistic structure of modern German, especially in contrast to the structure of English. Models used for analysis are the Transformational and Case Grammar models.

*Prerequisite:* AS/GER 3043 3.0 and AS/GER 3045 3.0 or equivalent, or permission of the department.

*Degree credit exclusion:* AS/GER 3110 3.0.

*Language of instruction:* German.

### **AS/GER 4120 3.0 Theory and Practice of Translation: German-English, English-German.**

The course concerns itself with the theory and practice of translation, more especially, from German to English and English to German, with texts for translation drawn from general interest fields. Detailed knowledge of syntactic differences between German and English, modern German usage, stylistics, and semantics are applied to practical translation experience.

*Prerequisite/corequisite:* AS/GER 3043 3.0 and AS/GER 3045 3.0, or equivalent, or permission of the department.

*Language of instruction:* German.

### **AS/GER 4300 3.0 Medieval German Literature.**

An introduction to the Middle High German language. Reading of representative works of the period such as the Nibelungenlied and the poetry of Walther von der Vogelweide.

*Prerequisite:* AS/GER 2040 6.0 or permission of the department.

*Language of instruction:* German.

### **AS/GER 4310 3.0 A Survey of German Literature from 1400 to 1700.**

The literature of German Humanism, from the Reformation period and from the time of the Thirty Years' War. Representative authors such as Luther, Sachs, Gryphius, Lohenstein and Grimmelshausen are studied.

*Prerequisite:* AS/GER 2200 6.0 or permission of the department.

*Degree credit exclusion:* AS/GER 3310 3.0.

*Language of instruction:* German.

### **AS/GER 4510 3.0 Goethe's Faust.**

Close textual analysis of Goethe's Faust. The relation of the work to its historical background. Introduction to the Faust legend and the varied history of the Faust theme in German literature.

*Prerequisite:* AS/GER 2200 6.0 or permission of the department.

*Language of instruction:* German.

### **AS/GER 4600 3.0 Berlin in German Literature and Culture.**

Berlin's unique position at the crossroads of East and West makes it politically and socially the most interesting city in the German-speaking countries today. This course examines the presentation of Berlin in German literature from imperial capital to divided city.

*Prerequisite:* AS/GER 2200 6.0 or permission of the department.

*Degree credit exclusions:* AS/GER 3600 3.0, AS/HUMA 3600 3.0.

*Language of instruction:* German.

### **AS/GER 4610 3.0 The German Drama in the 20th Century.**

A study of major dramas from Wedekind to Brecht, with attention to the development of the drama as a genre, and to the relation of the works to their historical background.

*Prerequisite:* AS/GER 2200 6.0 or permission of the department.

*Degree credit exclusion:* AS/GER 3610 3.0.

*Language of instruction:* German.

### **AS/GER 4620 3.0 Bertolt Brecht: Literature, Culture and Politics (in translation).**

Using an interdisciplinary approach, the course examines Brecht's understanding of the interplay of literature, culture and politics, as shown in his dramatic, poetical and theoretical works.

*Cross-listed to:* AS/HUMA 4881 3.0.

*Language of instruction:* English.

### **AS/GER 4700 3.0 The Works of Franz Kafka (in translation).**

Through an extensive and intensive study of Kafka's novels, stories, diaries and letters, as well as a consideration of relevant works by other authors (e.g. Buber, Dostoevsky, Nietzsche), the course seeks to arrive at a balanced and coherent understanding of Kafka's work.

*Degree credit exclusions:* AS/GER 4700 6.0, AS/VC 4040 6.0, AS/HUMA 4880D 6.0.

*Cross-listed to:* AS/HUMA 4880D 3.0.

*Language of instruction:* English.

*Note:* As the course is taught in translation, no knowledge of the German language is required. Students taking the course for major or minor degree credit in German will be required to do some work in German. For these students AS/GER 2200 6.0 is a prerequisite.

## **V. Greek**

### **AS/GK 1000 6.0 Elementary Classical Greek.**

This course is an introduction to Classical Greek. No knowledge of the language is assumed.

*Note:* Further courses in Greek Literature are listed under Classical Studies.

*Language of instruction:* English.

### **AS/GK 1410 6.0 Introductory Modern Greek.**

This course teaches the fundamentals of modern Greek: the writing system, pronunciation, basic forms and syntax, with some practice in simple conversation, reading and writing.

*Cross-listed to:* AK/GK 1410 6.0.

*Note:* Not open to students who obtained their high school "apolytiron" (Grade 12) from a Greek high school, nor to students with an OAC in Modern Greek.

### **AS/GK 2430 6.0 Intermediate Modern Greek.**

This course is designed to improve the student's oral and written command of the modern Greek language. Short texts relevant to modern Greek culture will be read and analyzed for their content and style.

*Cross-listed to:* AK/GK 2430 6.0.

*Prerequisite:* AK/GK1410.06, OAC in Modern Greek or, for students with equivalent preparation, permission of the Department of Languages, Literatures and Linguistics.

### **AS/GK 3450 6.0 Modern Greek Literature and Culture After Independence.**

A general survey of the development of Greek literature and culture from the early 19th century to the present.

*Cross-listed to:* AK/GK 3450 6.0.

*Prerequisite:* AK/GK2430. 06 or permission of the Department of Languages, Literatures and Linguistics. Fluency in Greek is essential.

## **VI. Hebrew**

*Entry to Hebrew courses:* Students will be placed in classes at a level that suits their previous experience. No student may take both AS/HEB 1000 6.0 and AS/HEB 1010 6.0.

### **AS/HEB 1000 6.0 Elementary Modern Hebrew, Level I.**

A course in beginning Hebrew, teaching elementary speaking and writing skills, emphasizing oral production and comprehension. This course is not open to anyone who has studied Hebrew before, either formally or informally.

*Language of instruction:* Hebrew.



**AS/HEB 1010 6.0 Elementary Modern Hebrew, Level II.** This course is for students who have at some time in the past learned to read and write Hebrew, but who have not pursued their previous studies to the point where they have a basic command of the language. It teaches elementary oral and writing skills.

*Prerequisite:* One or two years of Hebrew at elementary day school or equivalent.

*Language of instruction:* Hebrew.

**AS/HEB 1030 3.0 Elementary Biblical Hebrew, Level I.** This course introduces students to the basic vocabulary, grammar and syntax of Biblical Hebrew. The class also reads simple narrative prose from the Bible, such as segments from the Joseph story in Genesis.

*Prerequisite:* None.

*Language of instruction:* English.

**AS/HEB 1040 3.0 Elementary Biblical Hebrew, Level II.** This course builds on the skills that the students acquired in HEB 1030 3.0. More advanced issues of grammar and syntax are addressed and students acquire a much larger vocabulary thus allowing more extensive readings of Biblical texts.

*Prerequisite:* AS/HEB 1030 3.0 or equivalent.

*Language of instruction:* English.

**AS/HEB 2010 6.0 Intermediate Modern Hebrew.** Review and consolidation of grammar topics to achieve a balance in the students' competence in written and oral skills. Further development in speaking, reading and writing. Course material deals with everyday situations, Jewish history, culture and aspects of life in Israel.

*Prerequisite:* AS/HEB 1000 6.0 or AS/HEB 1010 6.0, or equivalent; not normally open to students with more than seven years of elementary school level Hebrew or equivalent

*Language of instruction:* Hebrew.

**AS/HEB 3000 6.0 Advanced Modern Hebrew.** A course in modern Hebrew, emphasizing the study of contemporary Israeli language as seen in a wide variety of writings (education, business, military and religious literature, as well as newspapers, periodicals and some *belles lettres*). This course includes practice in writing and composition.

*Prerequisite:* AS/HEB 2010 6.0 or equivalent. Not normally open to students with two or more years of high school level Hebrew, nor to native speakers.

*Language of instruction:* Hebrew.

**AS/HEB 3210 3.0 Selections from Hebrew Legal-Religious Texts: Reading and Analysis.** This course presents the structure of the core texts of the Jewish legal and religious traditions, using selections from major Hebrew legal codes, responsa literature and exegetical texts.

*Prerequisite:* AS/HEB 3000 6.0 or permission of the department.

*Language of instruction:* Hebrew.

**AS/HEB 3220 3.0 Hebrew Liturgical Texts: Origins, Contexts and Analysis.** This course introduces a specialized genre of Hebrew literature: liturgical texts. The texts analyzed include a variety of ancient, medieval and modern Jewish liturgies.

*Prerequisite:* AS/HEB 3000 6.0 or permission of the department.

*Language of instruction:* Hebrew.

**AS/HEB 3230 3.0 The Literature of Celebration and Commemoration.** This course analyzes a variety of texts, classical and modern, in which aspects of major Jewish festivals and memorial days are explored.

*Prerequisite:* AS/HEB 3000 6.0 or permission of the department.

*Language of instruction:* Hebrew.

**AS/HEB 3320 3.0 Exodus: Text and Classical Interpretation.** A close textual analysis of the book of Exodus in the original Hebrew and of interpretations of the book written in Hebrew throughout the ages. Language of instruction and readings: Hebrew.

*Prerequisite:* AS/HEB 3000 6.0 or equivalent.

*Language of instruction:* Hebrew.

**AS/HEB 3330 3.0 Deuteronomy: Text and Classical Interpretation.** A close textual analysis of the book of Deuteronomy and of interpretations of the book written in Hebrew throughout the ages. Language of instruction and readings: Hebrew.

*Prerequisite:* AS/HEB 3000 6.0 or equivalent.

*Language of instruction:* Hebrew.

**AS/HEB 3360 3.0 Prophetic Literature: Text and Classical Interpretation.** A close textual analysis of selected passages from the biblical literary prophets and of interpretations of these passages written in Hebrew throughout the ages. Language of instruction and readings: Hebrew.

*Prerequisite:* AS/HEB 3000 6.0 or equivalent.

*Language of instruction:* Hebrew.

**AS/HEB 3370 3.0 The Hagiographical Literature: Text and Classical Interpretation.** A close textual analysis of selected passages from the later books of the Bible — Esther, Lamentations and Ecclesiastes — and interpretations of these books written in Hebrew throughout the ages. Language of instruction and readings: Hebrew.

*Prerequisite:* AS/HEB 3000 6.0 or equivalent.

*Language of instruction:* Hebrew.

**AS/HEB 3500 6.0 The Hebrew Revival: Language and Literature.** Readings and discussion of the language and literature of the Hebrew Revival of the 18th and 19th centuries. Readings and discussions are in Hebrew.

*Prerequisite:* AS/HEB 3000 6.0 or equivalent.

*Language of instruction:* Hebrew.

**AS/HEB 3600 6.0 Themes in Modern Israeli Literature and Society.** An examination of some major intellectual questions and literary currents of modern Israel Canaanism; the cult of the strong; the kibbutz; the Holocaust; the clash of East and West. Included is a study of literary, historical, philosophical and sociological writings.

*Prerequisite:* AS/HEB 3000 6.0 or equivalent.

*Language of instruction:* Hebrew.

**AS/HEB 3710 3.0 Diaspora, Home, Nostalgia: Modern Jewish Women's Literature.** What is "Jewish" and "modern" about "Modern Jewish Women's Literature," and how does it reflect the experiences and perceptions of women? Examining a variety of literary genres, the course compares Israeli women's literature in translation with contemporary writing by other Jewish women.

*Language of Instruction:* English.

**AS/HEB 3770 3.0 Inventing Israel: Culture, Crisis and Continuity in Israeli Literature.** Modern Hebrew writers faced the challenge of reinventing a language and culture during a century of upheaval and change. Examining fiction, poetry, memoirs and film (in translation), this course addresses such issues as personal and collective identities, and relationships with the past.

*Language of instruction:* English.

**AS/HEB 4000 6.0 Advanced Modern Hebrew, Level II.** An intensive course designed to acquaint students with advanced aspects of Hebrew grammar, to improve their reading skills and their ability to express themselves fluently in conversation and in written form.

*Prerequisite:* AS/HEB 3000 6.0 or equivalent. Not open to native speakers who have completed Grade 8 in Israel.

*Language of instruction:* Hebrew.

**AS/HEB 4300 6.0 Talmudic Literature.** A literary, historical and philosophical analysis of the classics of rabbinic law and legend in the original Hebrew from the Mishnah to early modern times. Particular emphasis is placed on the problem of turning an oral law into works of literature. Classes are conducted in Hebrew.

*Prerequisite:* AS/HEB 3000 6.0 or equivalent.

*Language of instruction:* Hebrew.

## VII. Italian

**AS/IT 1000 6.0 Elementary Italian.** This course is designed for students with no previous formal training in standard Italian. This course teaches speaking and writing skills through the study of elementary grammar, the practice of vocabulary, intonation and pronunciation.

*Degree credit exclusions:* AS/IT 1010 6.0, AK/IT 0200 6.0.

*Language of instruction:* Italian/English.

**AS/IT 2000 6.0 Intermediate Italian.** This course is intended for students with background knowledge of Italian. Emphasis is placed on oral competence and writing skills.



*Prerequisite: OAC in Italian (or equivalent) or AS/IT 1000 6.0 (with a minimum grade of C) or equivalent.*

*Degree credit exclusions: AS/IT 1040 6.0, AS/IT 1050 6.0, AS/IT 1060 6.0, AK/IT 1200 6.0.*

*Language of instruction: Italian.*

**AS/IT 2200 6.0 Introduction to Italian Literature.** General historical and thematic survey from the medieval period to the present. The basic tools of literary analysis are emphasized. The languages of instruction are Italian and English.

*Prerequisite: AS/IT 2000 6.0 or equivalent, or permission of the department.*

*Coresquisite: With permission of the department, students who have successfully completed AS/IT 1000 6.0, or equivalent, may enrol in AS/IT 2200 6.0 only if they are concurrently enrolled in AS/IT 2000 6.0.*

*Language of instruction: Italian/English.*

**AS/IT 2751 9.0 Aspects of Italian Culture.** This course aims to present and analyze some of the most interesting themes underlying the development of Italian intellectual life from the 14th century to the 19th century. (This course is affiliated with Founders College.)

*Cross-listed to: AS/HUMA 2990A 9.0.*

*Degree credit exclusions: AS/IT 2751 6.0, AS/HUMA 2990A 6.0.*

*Note: No knowledge of Italian is required. Students taking Italian as their major or minor subject may take this course, but it does not count towards a major or minor in Italian, nor does it fulfill the Faculty of Arts elective requirements of students in Italian.*

*Language of instruction: English.*

**AS/IT 2761 9.0 Italian Cinema, Literature and Society.** The course focuses on 12 of the most significant films since World War II in the context of the radical changes that have taken place in Italy from the fall of Fascism to the present, and as critical statements on the phenomena connected with the rapid transformation of Italian society: industrialization and the "economic miracle", urbanization, the crisis of traditional values and postmodern fragmentation. (This course is affiliated with Founders College.)

*Cross-listed to: AS/HUMA 2761 9.0.*

*Language of instruction: English.*

**AS/IT 2791 9.0 Italian: A Minority Culture and Language in North American Society.** This course investigates the effects North American culture and language have on the lives of Italian immigrants and their descendants. (This course is affiliated with Stong College.)

*Cross-listed to: AS/SOSC 2960 9.0.*

*Degree credit exclusions: AS/SOSC 2990C 6.0, AS/IT 2791 6.0, AS/IT 2790 6.0.*

*Language of instruction: English.*

**AS/IT 3000 6.0, Advanced Italian, Level I.** This course develops the students' command of Italian through the further study of difficult areas of morphology and syntax. Readings from

contemporary sources expose students to Italian cultural trends and provide a basis for discussions and short essays.

*Prerequisite: AS/IT 2000 6.0 (or equivalent), or permission of the department.*

*Degree credit exclusions: AS/IT 2040 6.0, AS/IT 2060 6.0.*

*Language of instruction: Italian.*

**AS/IT 3130 3.0 Linguistic Structures in Italian and English.** The aim of this course is to describe and analyze those aspects of linguistic structure of Italian which differ from English. This is not a translation course: students analyze differences between structures of the two languages.

*Prerequisite: AS/IT 3000 6.0 or equivalent, or permission of the department.*

*Language of instruction: Italian.*

**AS/IT 3150 3.0 Italian Regional Linguistic Varieties.** This course deals with the complex linguistic situation of Italy. The different languages or dialects are analyzed and classified with respect to their similarities to and differences from the standard language.

*Prerequisite: AS/IT 3000 6.0 or permission of the department.*

*Language of instruction: Italian.*

**AS/IT 3200 6.0 Italian Opera from Monteverdi to Puccini.** This course studies selected librettos by the most celebrated Italian dramatic poets from the early Baroque to the early 20th century, in the context of the theatrical and aesthetic developments in Europe, and against the background of the cultural and political history of the chief centres of theatrical life.

*Language of instruction: English.*

**AS/IT 3201 6.0 Italian Philosophical and Political Thought: From Pre-Humanism to Postmodernism.** An exploration of Italian philosophical and political thought from the medieval to the contemporary period. Topics include humanism, cosmology, philosophy of history, Marxism, existentialism, phenomenology and postmodernism.

*Language of instruction: English.*

**AS/IT 3210 3.0 20th-Century Italian Theatre.** Study of modern Italian theatre with special emphasis on authors, such as D'Annunzio, Pirandello and Betti.

*Prerequisite: AS/IT 2200 6.0 or permission of the department.*

*Language of instruction: Italian.*

**AS/IT 3340 3.0 Italian Humanism.** The main aspects of Quattrocento thought from Petrarch to the age of Lorenzo de' Medici; its importance in the development of Renaissance culture as manifested in the new concepts of humanity, history, politics, education and art.

*Prerequisite: AS/IT 2200 6.0 or permission of the department.*

*Language of instruction: Italian.*

**AS/IT 3350 6.0 The Literature of the Italian Renaissance.** Study of main authors and literary trends from the age of Lorenzo de' Medici to the death of Tasso. This may include the revolutionary political concepts elaborated by Machiavelli and Guicciardini, as well as new approaches to literary theory and practice.

*Prerequisite: AS/IT 2200 6.0 or permission of the department.*

*Language of instruction: Italian.*

**AS/IT 3360 6.0 Petrarch: Love, Women and Power in the Middle Ages.** An exploration of Petrarch's *Canzoniere* and its influence on European poetry. This course analyzes the way the life of women at the end of the Middle Ages is represented by Petrarch and by the different traditions of European poetry.

*Prerequisite: AS/IT 2200 6.0 or permission of the department.*

*Degree credit exclusions: AS/IT 3360 3.0, AS/IT 3361 6.0.*

*Note: This course counts for Italian major/minor credit.*

*Language of instruction: English/Italian.*

**AS/IT 3361 6.0 Petrarch: Love, Women and Power in the Middle Ages (in translation).** An exploration of Petrarch's *Canzoniere* and its influence on European poetry. This course analyzes the way the life of women at the end of the Middle Ages is represented by Petrarch and by the different traditions of European poetry.

*Degree credit exclusions: AS/IT 3360 3.0, AS/IT 3360 6.0.*

*Note: This course does not count for Italian major/minor credit.*

*Language of instruction: English/Italian.*

**AS/IT 3370 6.0 The Italian Short-Story from Boccaccio to Basile.** This course examines the development of the Italian novella from the Middle Ages to the Baroque period. Among the authors studied are: Boccaccio, Bandello and Basile.

*Prerequisite: AS/IT 2200 6.0 or permission of the department.*

*Degree credit exclusions: AS/IT 3371 6.0, AS/IT 3370 3.0.*

*Note: This course counts for Italian major/minor credit.*

*Language of instruction: English/Italian.*

**AS/IT 3371 6.0 The Italian Short-Story from Boccaccio to Basile (in translation).** This course examines the development of the Italian novella from the Middle Ages to the Baroque period. Among the authors studied are: Boccaccio, Bandello and Basile.

*Degree credit exclusions: AS/IT 3370 3.0, AS/IT 3370 6.0.*

*Note: This course does not count for Italian major/minor credit.*

*Language of instruction: English/Italian.*

**AS/IT 3550 6.0 19th-Century Italian Literature.** The main trends in Italian literature of the 19th century from the Pre-Romantics to Verismo. Works by major authors, such as Foscolo, Leopardi, Manzoni, Carducci and Verga, are studied in depth.

*Prerequisite:* AS/IT 2200 6.0 or permission of the department.

*Language of instruction:* Italian.

**AS/IT 3721 6.0 Mapping the Italian Experience in Canada: The Literary and Cultural Perspective.** The study of the Italian experience in Canada as expressed in representative works from various genres: narrative, poetry, theatre and film. The significance of these works is examined in the social and political context.

*Cross-listed to:* AS/EN 3721 6.0.

*Language of instruction:* English.

**AS/IT 3750 6.0 Modern Italian Culture.** This course introduces students to cultural, social and political issues which form the fabric of Italian civilization from unification to the present.

*Prerequisite:* No knowledge of Italian necessary

*Degree credit exclusion:* AS/IT 3250 6.0.

*Note:* Students who are taking Italian as a major or minor subject are required to do the readings and assignments for this course in Italian. Students may take only one of the following courses for credit towards a degree in Italian: AS/IT 3750 6.0 or AS/IT 3790 6.0 or the combination of AS/IT 3760 3.0 and AS/IT 3770 3.0.

*Language of instruction:* English.

**AS/IT 3760 3.0 Italian Medieval and Renaissance Civilization.** The main elements of Italian civilization from the age of the republican city-states to the end of the Renaissance: the arts, literature and society; changing concepts of the state; the papacy, the Reformation and Counter-Reformation.

*Degree credit exclusions:* AS/IT 3250 6.0, AS/IT 3761 3.0.

*Note:* Students who are taking Italian as a major or minor subject are required to do the readings and assignments in Italian. Students may take only one of the following courses for credit towards a degree in Italian: AS/IT 3750 6.0 or AS/IT 3790 6.0 or the combination of AS/IT 3760 3.0 and AS/IT 3770 3.0.

*Language of instruction:* English.

**AS/IT 3761 3.0 Italian Medieval and Renaissance Civilization.** The main elements of Italian civilization from the age of the republican city-states to the end of the Renaissance. The arts, literature and society; changing concepts of the state; the papacy, the Reformation and Counter-Reformation.

*Degree credit exclusions:* AS/IT 3250 6.0, AS/IT 3760 3.0.

*Note:* Knowledge of Italian not necessary. Students who are taking Italian as a major or minor subject are required to do the readings

and assignments in Italian. Students may take only one of the following courses for credit towards a degree in Italian: AS/IT 3750 6.0 or AS/IT 3790 6.0 or the combination of AS/IT 3760 3.0 and AS/IT 3770 3.0.

*Language of instruction:* English.

**AS/IT 3770 3.0 Modern and Contemporary Italian Culture.** Key issues in contemporary Italian society are studied in their historical development, with the focus on the following: unification and its aftermath; regionalism; Fascism and the Resistance; political parties and intellectuals; the Church; art and literature.

*Degree credit exclusions:* AS/IT 3750 6.0, AS/IT 3771 3.0.

*Note:* Students who are taking Italian as a major or minor subject are required to do the readings and assignments for this course in Italian. Students may take only one of the following courses for credit towards a degree in Italian: AS/IT 3750 6.0 or AS/IT 3790 6.0 or the combination of AS/IT 3760 3.0 and AS/IT 3770 3.0.

*Language of instruction:* English.

**AS/IT 3771 3.0 Modern and Contemporary Italian Culture.** Key issues in contemporary Italian society are studied in their historical development, with the focus on the following: unification and its aftermath; regionalism; Fascism and the Resistance; political parties and intellectuals; the Church; art and literature.

*Degree credit exclusions:* AS/IT 3750 6.0, AS/IT 3770 3.0.

*Note:* Knowledge of Italian not necessary.

*Language of instruction:* English.

**AS/IT 4000 6.0 Advanced Italian, Level II.** This course concentrates on the study of vocabulary and style. Different levels of language use (academic, formal, colloquial, slang) and different "specialized languages" are explored through readings from contemporary sources. Advanced training in composition. Extensive use of videos and feature films.

*Prerequisite:* AS/IT 3000 6.0 (or equivalent), or permission of the department.

*Degree credit exclusion:* AS/IT 3040 6.0.

*Language of instruction:* Italian.

**AS/IT 4120 6.0 Written Translation, Italian-English/English-Italian.** Translation from and into Italian of non-literary texts on a variety of topics (politics, economics, arts, music, psychology, travel).

*Prerequisite:* AS/IT 3000 6.0 (or equivalent), or permission of the department.

*Degree credit exclusion:* AS/IT 3120 6.0.

*Language of instruction:* Italian.

**AS/IT 4140 3.0 Sociopragmatic Competence in Italian.** This course deals, both at the theoretical and applied level, with some important aspects of sociolinguistic interaction in Italian. Students learn about

rules of speaking, speech acts, the notion of "face," pragmatic transfer, and pragmatic failure as they apply to the Italian language.

*Prerequisite:* AS/IT 3000 6.0 or equivalent, or permission of the department.

*Language of instruction:* Italian.

**AS/IT 4150 3.0 The Study of the Italian Lexicon: A Course in Applied Semantics.** The course examines the Italian lexicon using the concepts and analytical tools of modern Semantics.

*Prerequisite:* AS/IT 4000 6.0 or AS/IT 4120 6.0 or equivalent, or permission of the department.

*Language of instruction:* Italian.

**AS/IT 4180 3.0 Selected Topics in Italian Linguistics.** The purpose of this course is to acquaint students with a selected number of topics in Italian linguistics. Topics may include selected areas of phonetics, phonology, morphology, syntax, English-Italian contrastive grammar and pragmatics.

*Prerequisite:* AS/IT 3000 6.0 or equivalent, or permission of the department.

*Language of instruction:* Italian.

**AS/IT 4190 3.0 History of the Italian Language.** This course traces the history of the Italian language from its Indo-European roots to the present. Topics analyzed include, among others, linguistic aspects of pre-Roman Italy, the transformation of Latin, the 16th-century linguistic controversy ("la questione della lingua"), borrowings from other languages, the standardization of modern Italian.

*Prerequisite:* AS/IT 2200 6.0 or permission of the department.

*Note:* Not open to students who have completed AS/IT 3180 3.0.

*Language of instruction:* Italian.

**AS/IT 4200 6.0 Modern Literary Criticism in Italy.** The methodologies of literary criticism as they have developed in Italy through a theoretical and practical approach. Emphasis is given to the stylistic, structural, sociological and psychoanalytical methods.

*Prerequisite:* AS/IT 2200 6.0 or permission of the department.

*Language of instruction:* English.

**AS/IT 4210 3.0 Renaissance Theatre.** A study of the major works of the Italian Renaissance theatre in its development from classical forms; tragedy, comedy and the theoretical discussions related to them; the pastoral drama and Tasso's *Aminta*.

*Prerequisite:* AS/IT 2200 6.0 or permission of the department.

*Language of instruction:* Italian.

**AS/IT 4330 6.0 Dante and Medieval Italian Literature.** This course centres on the *Divine Comedy*, its roots in the European literary and philosophical tradition, and the critical problems of the medieval mind. Key aspects of that tradition through selected readings. Some of Dante's minor works are also studied.

*Prerequisite: AS/IT 2200 6.0 or permission of the department.*

*Language of instruction: Italian.*

**AS/IT 4350 3.0 Women Poets of the Italian Renaissance.** In this course emphasis is placed on the self-awareness of 16th-century women writers in a predominately male world, and their intellectual and social self-understanding in relation to the Renaissance concept of the individual.

*Language of instruction: English/Italian.*

**AS/IT 4550 3.0 17th-Century Italian Literature.** The poetry and prose of the 17th century, focusing on Marino and the "marinisti;" selections from the theoretical texts of the period; the links, where appropriate, with the visual arts.

*Prerequisite: AS/IT 2200 6.0 or permission of the department.*

*Language of instruction: Italian.*

**AS/IT 4620 6.0 20th-Century Italian Poetry.**

Modern Italian poetry from Pascoli to the present. Outstanding works of authors, such as D'Annunzio, Gozzano, Ungaretti, Montale, Quasimodo, Pasolini, Sanguineti, Zanzotto, Rosselli, Niccolai and others.

*Prerequisite: AS/IT 2200 6.0 or permission of the department.*

*Degree credit exclusion: AS/IT 4620 3.0.*

*Language of instruction: Italian.*

**AS/IT 4650 6.0 20th-Century Italian Novel.**

The modern Italian novel from D'Annunzio to the neo-avant-garde. Outstanding works of authors, such as Svevo, Moravia, Vittorini, Pavese, Calvino and Pasolini.

*Prerequisite: AS/IT 2200 6.0 or permission of the department.*

*Language of instruction: Italian.*

## VIII. Japanese

**AS/JP 1000 6.0 Elementary Modern Standard Japanese.**

Basics of spoken Japanese, with strong emphasis on immediate practical usefulness in everyday situations, the two kana syllabaries, approximately 150 Kanji (Sino-Japanese characters) and elementary reading are covered. Simple sentence grammar is focused on. No previous knowledge of the language is assumed.

*Language of instruction: Japanese.*

**AS/JP 2000 6.0 Intermediate Modern Standard Japanese.**

Further study of common grammatical forms and structures; items covered in AS/JP 1000 6.0 are reviewed and expanded. Situation and task oriented conversation, strategy-centered reading and structure-based writing are involved with emphasis on complex sentence grammar. Approximately 300 additional Kanji (Sino-Japanese characters) are introduced.

*Prerequisite: AS/JP 1000 6.0 or equivalent.*

*Language of instruction: Japanese.*

**AS/JP 3000 6.0 Advanced Modern Standard Japanese.**

The course focuses on continuous texts; edited texts on various topics are read, summarized, translated and discussed with emphasis on discourse grammar. All Kanji (Sino-Japanese characters) in Education Characters (881) will be covered.

*Prerequisite: AS/JP 2000 6.0 or equivalent.*

*Language of instruction: Japanese.*

**AS/JP 3720 6.0 Japanese Culture, Literature and Film.**

By comparing works by Japanese authors with related films, this course explores basic patterns and themes of Japanese culture.

*Cross-listed to: AS/HUMA 3420 6.0, FA/FILM 3710 6.0.*

*Prerequisite: None.*

*Language of instruction: English.*

**AS/JP 4000 6.0 Advanced Reading in Contemporary Japanese.**

Readings in unannotated original essays and articles on current issues taken from periodicals; interpretation, translation, summarization and discussion of readings enable students to use a wide variety of Japanese materials independently. Recognition of characters for daily use (1,945).

*Prerequisite: AS/JP 3000 6.0 or equivalent.*

*Language of instruction: Japanese.*

**AS/JP 4100 6.0 Teaching of Japanese as a Foreign/Second Language.**

This course offers comprehensive teacher education and training for the Japanese language. The main objective is to familiarize teachers with current theories, methodologies and their practical applications developed in the relevant areas, with strong focus on the communicative approach, and computer assisted language learning and teaching.

*Prerequisites: AS/JP 4000 6.0 or equivalent (for non-native speakers of Japanese); TOEFL score: 580 or equivalent (for non-native speakers of English); BA or BA expected within a year (may be waived at the instructor's discretion); teaching experience preferred; AS/LING 3230 3.0 strongly recommended.*

*Language of instruction: Japanese.*

A concentration in Japanese can fulfill the degree requirements for the East Asian Studies program. Please consult the Faculty of Arts 'Programs of Study' section.

## IX. Latin

**AS/LA 1000 6.0 Elementary Latin.**

This course is intended for students with no previous training in Latin.

*Language of instruction: English.*

*Note: Further courses in Latin are listed under Classical Studies.*

## X. Linguistics

For a list of course offerings, see *Linguistics*.

## XI. Portuguese

**AS/POR 1000 6.0, Elementary Portuguese.**

This course introduces the Portuguese language within its cultural contexts. The four skills of listening, speaking, reading and writing are emphasized. Students will acquire a functional competence in elementary written and spoken Portuguese. No previous knowledge of Portuguese is assumed.

*Degree credit exclusion: AS/POR 1010 6.0.*

*Language of instruction: Portuguese/English.*

**AS/POR 1010 6.0 Portuguese for Beginners with Background.**

This course is intended for students who have some understanding but no formal training in Portuguese. Development of reading, speaking, writing and grammar; oral and written exercises; written compositions; guidance in basic problems of interference from English.

*Prerequisite: Some understanding of Portuguese or permission of the department.*

*Degree credit exclusion: AS/POR 1000 6.0.*

*Language of instruction: Portuguese.*

**AS/POR 1050 6.0 Intermediate Portuguese.**

This course is intended for students with some oral and written knowledge of Portuguese, who wish to improve their command of the formal language. Development of speaking, listening and reading and writing skills; further study of grammar; vocabulary building; translation into Portuguese.

*Prerequisite: AS/POR 1000 6.0 or AS/POR 1010 6.0 or equivalent, or permission of the department.*

*Language of Instruction: Portuguese.*

**AS/POR 2040 6.0 Advanced Portuguese.**

This course gives students the skills to write and speak standard Portuguese, using reading and discussion of short texts from contemporary authors. Grammatical aspects of Portuguese are studied. Written assignments will reflect the topics and readings discussed in class.

*Prerequisite: AS/POR 1050 6.0 or permission of the department.*

*Language of instruction: Portuguese.*

## XII. Russian

*Note: In AS/RU 2700 6.0, AS/RU 2750 6.0, AS/RU 3720 3.0, AS/RU 3730 3.0, AS/RU 3740 6.0, AS/RU 3770 6.0, AS/RU 3780 3.0, AS/RU 3790 6.0, AS/RU 4740 6.0, AS/RU 4770 6.0 and AS/RU 4760 3.0, students majoring in Russian who are at the 3000-language level or above will be required to do a portion of the reading in Russian, the amount depending on their language level.*

**AS/RU 1000 6.0 Elementary Russian.**

Basic elements of Russian for beginners. Students receive training in the four skills of listening comprehension, speaking, reading and writing, by means of dialogues, drills and language laboratory sessions.

*Note: Native and near-native speakers are ineligible for this course.*

*Language of instruction: Russian.*

**AS/RU 2000 6.0 Intermediate Russian.** The aim of this course is to develop students' reading skills, oral comprehension and ability to express themselves in Russian both in written and in oral form. Special attention is devoted to a review and further study of grammar, vocabulary building, translation from and into Russian and conversation.

*Prerequisite: AS/RU 1000 6.0, or OAC in Russian (or equivalent) with appropriate score on departmental placement test, or permission of the department.*

*Note: Native and near-native speakers are ineligible for this course.*

*Language of instruction: Russian.*

**AS/RU 2700 6.0 The Russian Novel in the 19th Century.** A survey of Russian literature from its beginnings until 1880 with special emphasis on Pushkin, Lermontov, Gogol, Turgenev, Goncharov, Dostoevsky and Tolstoy. The relationship of Russian literature to other important European literatures of the 19th century is discussed.

*Note: No knowledge of Russian required. Russian majors normally begin their literature studies with this course.*

*Language of instruction: English.*

**AS/RU 2750 6.0 Russian Culture: Continuity and Conflict (in translation).** This course examines Russian culture in an historical and social context focusing on Kievan Rus', the rise of Muscovy, the expansion of the Russian Empire and its revolutionary mutation into the Soviet Union and the post-Soviet contemporary scene.

*Prerequisite: No knowledge of Russian required. (Same as AS/HIST 2310 6.0 and AS/HUMA 2990D 6.0)*

*Language of instruction: English.*

**AS/RU 3000 6.0 Advanced Russian, Level I.** A systematic review of grammar and an introduction to prose composition and translation. Conversation and discussion will be based on reading materials presenting various aspects of Russian culture.

*Prerequisite: AS/RU 2000 6.0 or equivalent.*

*Note: Native and near-native speakers are ineligible for this course.*

*Language of instruction: Russian.*

**AS/RU 3720 3.0 Tolstoy.** Detailed examination of the major fiction of Tolstoy, with special stress on the novels *War and Peace* and *Anna Karenina*.

*Note: No knowledge of Russian required.*

*Language of instruction: English.*

**AS/RU 3730 3.0 Dostoevsky.** Detailed examination of the major fiction of Dostoevsky, with special stress on the novels *Crime and Punishment*, *The Idiot*, *The Possessed* and *The Brothers Karamazov*.

*Note: No knowledge of Russian required.*

*Language of instruction: English.*

**AS/RU 3740 6.0 Chekhov and his Contemporaries: Russian Literature from 1880-1917.** A survey of Russian literature of the Silver Age featuring Chekhov (stories and plays), Tolstoy, Gorky, Bunin and the great Russian symbolists, Sologub and Bely.

*Note: No knowledge of Russian required.*

*Degree credit exclusion: AS/RU 4740 6.0.*

*Language of instruction: English.*

**AS/RU 3770 6.0 Russian Literature After 1917.** A survey featuring such writers as Gorky, Mayakovsky, Zamiatin, Babel, Olesha, Bulgakov, Ilf and Petrov, Zoshchenko, Evtushenko, Voznesensky, and the Nobel prize winners Sholokhov, Pasternak, and Solzhenitsyn, plus Five-year Plan novels and works of socialist realism.

*Note: No knowledge of Russian required.*

*Degree credit exclusion: AS/RU 4770 6.0.*

*Language of instruction: English.*

**AS/RU 3790 6.0 Russian and East Central European Film and Culture.** A study of the film masterpieces of the countries of Eastern Europe and the former USSR from silent cinema to the present. The films are examined in their aesthetic and cultural context, thereby introducing students to the culture and society of this area.

*Cross-listed to: AS/HUMA 3990H 6.0.*

*Note: All readings, lectures and written work are in English; English subtitles on films.*

*Language of instruction: English.*

**AS/RU 4000 6.0 Advanced Russian, Level II.** Intensive review of the more difficult areas of morphology; further study of syntax; additional training in translation and free composition; an introduction to practical stylistics; and discussions based on assigned readings on a wide range of topics.

*Prerequisite: AS/RU 3000 6.0 or equivalent.*

*Note: Native and near-native speakers are ineligible for this course. This course is reserved for Russian majors.*

*Language of instruction: Russian.*

**AS/RU 4550 3.0 Russian Prose of the 19th Century.** A thematic and stylistic analysis of Russian prose works in the original, including selections from Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, Chekhov etc.

*Prerequisite: (or corequisite with permission of the department) AS/RU 4000 6.0 with a minimum grade of C or equivalent.*

*Language of instruction: Russian.*

**AS/RU 4560 3.0 Russian Poetry of the 19th Century.** A study of themes and techniques of Russian poetry in the original, including works by Pushkin, Lermontov, Tyutchev, Nekrasov, Fet and others.

*Prerequisite: (or corequisite with permission of the department) AS/RU 3000 6.0 with a minimum grade of C.*

*Language of instruction: Russian.*

**AS/RU 4650 3.0 Russian Prose of the 20th Century.** A thematic and stylistic analysis of Russian prose works in the original, including selections from such authors as Bely, Sologub, Gorky, Andreev, Bunin, Zamyatin, Babel, Olesha, Leonov, Sholokhov, Bulgakov, Pasternak and Solzhenitsyn.

*Prerequisite (or corequisite with permission of the department): AS/RU 4000 6.0 with a minimum grade of C or equivalent.*

*Language of instruction: Russian.*

**AS/RU 4660 3.0 Russian Poetry of the 20th Century.** A study of themes and techniques of Russian poetry in the original, including works by Blok, Akhmatova, Mandel'shtam, Mayakovsky, Esenin, Tsvetaeva, Pasternak, Brodsky and others.

*Prerequisite (or corequisite with permission of the department): AS/RU 4000 6.0 with a minimum grade of C or equivalent.*

*Language of instruction: Russian.*

**AS/RU 4740 6.0 Chekhov and his Contemporaries: Russian Literature from 1880-1917.** A survey of Russian literature of the Silver Age featuring Chekhov (stories and plays), Tolstoy, Gorky, Bunin, and the great Russian symbolists, Sologub and Bely.

*Note: No knowledge of Russian required.*

*Degree credit exclusion: AS/RU 3740 6.0.*

*Language of instruction: English.*

**AS/RU 4760 3.0 Solzhenitsyn.** Detailed examination of the writings of one of the 20th-century's great Russian writers, including such works as *First Circle*, *Cancer Ward* and *Gulag Archipelago*.

*Note: No knowledge of Russian required.*

*Language of instruction: English.*

**AS/RU 4770 6.0 Russian Literature After 1917.** A survey featuring such writers as Gorky, Mayakovsky, Zamiatin, Babel, Olesha, Bulgakov, Ilf and Petrov, Zoshchenko, Evtushenko, Voznesensky, and the Nobel prize winners Sholokhov, Pasternak, and Solzhenitsyn, plus Five-year Plan novels and works of socialist realism.

*Note: No knowledge of Russian required.*

*Degree credit exclusion: AS/RU 3770 6.0.*

*Language of instruction: English.*

### XIII. Spanish

**AS/SP 1000 6.0 Elementary Spanish.** This is an intensive introductory course to the language and culture of the Hispanic world. Equal attention is paid to the four skills: listening, speaking, reading and writing. In addition, students acquire a command of all the essential grammatical structures of Spanish and a vocabulary of a minimum of 2,500 items. This course is designed for students with no knowledge of Spanish.

*Language of instruction: Spanish.*

**AS/SP 1050 6.0 Intermediate Spanish.** This course is an extensive review of the fundamentals of Spanish grammar and emphasizes the four skills, listening, speaking, reading and writing through compositions, written exercises, oral presentations and conversations.

*Prerequisite:* AS/SP 1000 6.0, or OAC in Spanish or equivalent, or placement through testing.

*Language of instruction:* Spanish.

**AS/SP 2040 6.0 Advanced Spanish Language and Grammar.** This course develops the student's command of Spanish grammar through the writing of multiple drafts of essays, the discussion of advanced and subtle aspects of grammar and style, and the analysis of selected readings.

*Prerequisite:* AS/SP 1050 6.0 with a minimum grade of C, or equivalent.

*Language of instruction:* Spanish.

**AS/SP 2200 6.0 Introduction to Spanish Literature.** This course provides a general background in literature from the medieval period to the 20th century and in literary criticism. It is required for all students who intend to major or minor in Spanish. Students should take this course during their first 10 courses.

*Prerequisite:* AS/SP 1050 6.0 or equivalent, or AS/SP 1000 6.0 with a minimum grade of A and concurrent enrolment in AS/SP 1050 6.0, or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3040 6.0 A Socio-cultural Approach to Spanish for Commerce.** This course examines the cultural concepts that inform the world of business within Spanish-Speaking Societies. Short stories, journalistic prose and historical and geographic materials are read and communicative skills appropriate for a Spanish-speaking commercial environment are developed.

*Prerequisite:* AS/SP 2040 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3110 3.0 Spanish Stylistics.** This course is designed to teach students of the Spanish language some basic aspects of stylistics and to provide practice in stylistic analysis of both literary and non-literary texts. The language of instruction is Spanish.

*Prerequisite:* AS/SP 2040 6.0 (preferably with a minimum grade of B) or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3120 3.0 English-Spanish and Spanish-English Translation.** This course helps students to learn some of the skills necessary for accurate written translation from English to Spanish and vice versa.

*Prerequisite:* AS/SP 2040 6.0 (preferably with a minimum grade of B) or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3210 6.0 Introduction to Spanish-American Literature.** An intensive study of prose and poetry from colonial times to the 20th century, with some reference to historical and social influences on the development of literature.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3360 3.0 Spanish Poetry of the Golden Age.** A study of selected poetry from the Renaissance and Baroque periods. Works by Garcilaso, Fray Luis de Leon, Herrera, San Juan de la Cruz, Gongora, Lope de Vega and Quevedo.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3370 3.0 Spanish Theatre of the Golden Age.** The rise and development of the Spanish theatre in the Renaissance and Baroque periods.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3540 3.0 19th-Century Spanish Poetry.** A study of representative works of the more important Spanish poets from the Romantic period to the end of the 19th century.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3560 3.0 19th-Century Spanish Theatre.** A study of representative works of the most important Spanish playwrights of the Romantic, Post-Romantic and Realistic schools.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3570 6.0 19th- and Early 20th-Century Spanish Prose.** A study of novels and short stories by outstanding Spanish writers, including Larra, Valera, Galdos, Blasco Ibanez and Unamuno.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3580 6.0 The Generation of 1898 and Modern Spain.** A study of major Spanish writers and thinkers from the generation of 1898 up to the present and their response to the problems facing the Spanish nation. Among the authors to be studied are Unamuno, Machado, Baraja, Zorin, Lorca, J. Ortega y Gasset and contemporary women writers.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 3660 6.0 20th-Century Spanish Poetry and Theatre.** This course explores the development of poetry and theatre in 20th-century Spain and acquaints students with the literary and aesthetic values of poetic and dramatic works of the period.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 4150 6.0 History of the Spanish Language.** The evolution of the Spanish language from Vulgar Latin to the present time. First Spanish texts. Spanish as a Romance language. Arabic and other foreign influences on the formation of Spanish.

*Prerequisite:* AS/SP 2040 6.0 and AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 4220 6.0 The Spanish-American Essay and Short Story.** Close reading of the Spanish-American essay and short story mainly of the 20th century including among the essayists Rodo, Mariategui, Pedro Henriquez Urena, Vasconcelos, Reyes, and among the cuentistas Dario, Borges, Rulfo, Garcia-Marquez and Carpentier.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 4300 6.0 Medieval Spanish Literature (from 1100 to 1400).** An exploration of the origins and development of Medieval Spanish Poetry and Prose with particular emphasis on major works such as Poema de Mio Cid, Los Milagros and El Libro de Buen Amor.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 4350 6.0 Spanish Prose of the Golden Age.** This course covers important aspects of Spain's intellectual life during the Golden Age. While most of the texts to be read are works of literature, some are expository works which reflect religious, philosophical and political ideas of the period.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 4580 3.0 Spanish-American Modernismo.** A survey of the poetry of the major Spanish-American modernists Jose Marti, Ruben Dario, Julian del Casal and Manuel Gutierrez Najera. In addition, the course considers the social and literary milieu of the period.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction:* Spanish.

**AS/SP 4640 6.0 The Spanish-American Novel of the 20th Century.** A close study of the novel in 20th-century Spanish-America, based on works of some of the major novelists.

*Prerequisite:* AS/SP 2200 6.0 or permission of the department.

*Language of instruction: Spanish.*

**AS/SP 4660 6.0 Contemporary Spanish Prose (Since 1939).** Detailed examination of the Spanish novel and short story written after the Civil War (1936-1939), including such authors as Cela, Delibes, Matute, Ayala Martin-Gaité.

*Prerequisite: AS/SP 2200 6.0 or permission of the department.*

*Language of instruction: Spanish.*

#### XIV. Special Topics

**AS/XX 1800 3.0/1800 6.0, AS/XX 2800 3.0/2800 6.0, AS/XX 3800 3.0/3800 6.0, AS/XX 4800 3.0/4800 6.0, AS/XX 4810 3.0, AS/XX 4820 3.0 Special Topics in Languages, Literatures and Linguistics.** Under this heading the department will, from time to time, offer courses in languages, literatures or linguistics which are not usually taught in the department. These courses may focus on new aspects of, or approaches to, subject matter which is already being taught.

#### XV. Individualized Reading Courses

**AS/XX 4900 3.0/4900 6.0 Individualized Reading Courses in Languages and Literatures.** This course will only be offered under special circumstances and by agreement among a faculty member, the department and the student.

*Note: Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

### Latin American and Caribbean Studies – Arts

#### Program Office:

217 Founders, 416-736-2100 ext. 66909

#### Coordinator of the Program:

E. Canel

#### Faculty Members:

W.W. Anderson, D. Barndt, F. Birbalsingh, J. Buttrick, R.E. Chace, R. Cox, H.E. Daugherty, E. Dosman, G.V. Doxey, C. Duran, Z. Ellis, M. Feliciano, W.C. Found, D. Freeman, K. Golby, G. Gold, L. Goldring, M.J. Goodman, R.W. Grant, R. Grinspun, J.A. Hellman, F. Henry, M. Kellman, P. Landstreet, S. Lanfranco, L. Lefeber, J. Lliambias-Wolff, P.E. Lovejoy, M. Magnotta, J.M. Maiguashca, R. Marcus, E. Melville, L.L. North, V. Patroni, L. Pena, A. Sekyi-Otu, M. Silverman, A. Simmons, D. Smaller, P.D.M. Taylor, D. Trotman, P. Valle-Garay, D. Yon

The Latin American and Caribbean Studies program (LACS) allows students interested in the Latin American/Caribbean area to pursue this interest by taking a set of carefully programmed courses taught in different departments and divisions in the Faculty of Arts. The LACS program offers introductory core courses in Latin American and Caribbean Studies as well as other introductory and

upper-level courses in the area. The purpose of the core courses is to introduce and develop interdisciplinary ways of looking at the regions while at the same time integrating knowledge obtained in other courses. Program courses provide shared intellectual meeting grounds for LACS majors and other students. The interdisciplinary nature of the LACS program ensures a broader and deeper understanding of the Latin American and Caribbean regions.

The LACS program works together with Founders College and the Centre for Research on Latin America and the Caribbean (CERLAC) to offer students a wide variety of events related to the Latin American and Caribbean regions. These include guest lectures by internationally renowned academics, workshops and conferences, and cultural and social events. Events are announced in classes or in special mailings to majors, and are regularly posted on the LACS bulletin board (besides the LACS program office). Students are encouraged to participate in these events. LACS majors may also use the Documentation Centre of the Centre for Research on Latin America and the Caribbean (CERLAC, 240 York Lanes).

LACS is housed at Founders College, which is also the home of two other interdisciplinary area studies Programs, African Studies and East Asian Studies. The Development Studies Resource Centre, which LACS co-sponsors with African Studies, Founders College and the Faculty of Arts, is also located at Founders (202C Founders College). We strongly recommend that LACS majors become members of Founders College, so that they can fully participate in the events co-sponsored by the area studies programs and the college.

LACS majors are also encouraged to join the LACS Students Association (LACSA), which provides students with an opportunity to meet together and set their own agenda. Its office is in 201B Founders College.

**Study Abroad Programs:** York University has a formal Student Exchange Agreement with the University of the West Indies (UWI) which allows York students to study at UWI and get credit from York. LACS majors may also get academic credit for other courses taken at other universities in the Latin American and Caribbean area. For further information contact York International or the LACS coordinator.

*Note: For specific requirements of this program, please consult the Faculty of Arts "Programs of Study" section.*

### Departmental and Divisional Courses in Latin American and Caribbean Studies

*Note: For purposes of meeting program requirements, all Foundations courses will count as six credits towards the major.*

*Note: Not all courses listed will be offered in any one academic year. For information about specific offerings and special topics courses on Latin America and the Caribbean, students*

*should consult the supplementary calendars available in the spring.*

AS/ECON 3310 3.0 Development Economics I.  
AS/ECON 3320 3.0 Development Economics II.  
AS/EN 4230D 3.0 Studies in Post-Colonial Literature: Derek Walcott.  
AS/FR 2052 3.0 Music and Identity in the French Caribbean.  
AS/FR 2053 3.0 Literature and Identity in the French Caribbean.  
AS/GEOG 2020 6.0 Geographical Transformation of the Caribbean Islands.  
AS/HIST 2720 6.0 Modern Latin America, 1810 to the present.  
AS/HIST 3700 6.0 African, Caribbean and Latin American Connections: The Making of the South Atlantic World.  
AS/HIST 3730 6.0 Mexican History from the Aztecs to the Mexican Revolution (1325-1911).  
AS/HIST 4750 6.0 Backwardness and Revolution in Latin America  
AS/HIST 4755 6.0 Cultural and Social History of Colonial Latin America.  
AS/HUMA 2310 9.0 Introduction to Caribbean Studies.  
AS/HUMA 4300 6.0 Aspects of Modern Latin American and Caribbean Studies. (Cross-listed to: AS/SOSC 4450 6.0)  
AS/POLS 3790 6.0 The Political Economy of Latin America and the Caribbean. (Cross-listed to: AS/SOSC 3410 6.0)  
AS/POLS 4225 3.0 Canada and the Americas.  
AS/POLS 4540 6.0 Caribbean Politics.  
AS/SOSC 2460 6.0 Contemporary Latin America.  
AS/SOSC 2470 6.0 Caribbean Society in Transition: Emancipation to Independence.  
AS/SOSC 3270 6.0 The Caribbean Experience in Multicultural Canada.  
AS/SOSC 3410 6.0 The Political Economy of Latin America and the Caribbean. (Cross-listed to: AS/POLS 3790 6.0)  
AS/SOSC 4450 6.0 Aspects of Modern Latin American and Caribbean Studies. (Cross-listed to: AS/HUMA 4300 6.0)  
AS/SOCI 3330 6.0 Politics and Society in Latin America.  
AS/SOCI 4350 3.0 Sociology of International Migration.  
AS/SP 3210 6.0 Introduction to Spanish-American Literature.  
AS/SP 4220 6.0 The Spanish American Essay and Short Story.  
AS/SP 4580 3.0 Spanish-American Modernismo.  
AS/SP 4640 6.0 The Spanish-American Novel of the 20th Century.

*Note: The following courses provide the opportunity for advanced students to undertake directed reading and/or research projects under the guidance of a member of the Latin American and Caribbean Studies program. Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

AS/HUMA 4050 6.0 Independent Studies.

*Prerequisite: Permission of the Humanities division.*

AS/SOSC 4090 6.0 Directed Reading.

*Prerequisite: Permission of the Social Science division.*

*Note: The following courses are offered through Atkinson. Students should consult the Atkinson Calendar for details.*

AK/ECON 3550 3.0 The Economics of Developing Countries, Part I.  
AK/ECON 3560 3.0 The Economics of Developing Countries, Part II.  
AK/POLS 3460 6.0 Latin America and the Caribbean: Development and Underdevelopment.  
AK/POLS 3620 6.0 Racism and Colonialism.  
AK/SOSC 2430 6.0 Introduction to Comparative Third World Studies.  
AK/SOCI 4240 6.0 Health Society and Human Resources.

### Other Courses

Courses that are not listed above as part of the LACS program (i.e. courses in the Faculty of Arts, Faculty of Atkinson, Faculty of Environmental Studies, Fine Arts etc.) but that have enough Latin American and/or Caribbean content may be counted for credit in the LACS program subject to approval by the LACS coordinator. Please consult the Atkinson Calendar for further information about Atkinson courses, or talk to the LACS coordinator.

## Law and Society – Arts

**Program Office (Division of Social Science):**  
S741 Ross, 416-736-5054

### Coordinator of the Program:

Richard Weisman, Sociology/Social Science  
e-mail: rweisman@yorku.ca

### Advisers:

M. Beare, Department of Sociology; P. Harries-Jones, Department of Anthropology; J. Landa, Department of Economics; P. Oliver, Department of History; L. Jacobs, Department of Philosophy; I. Greene, Department of Political Science; R. Schuller, Department of Psychology

Law is one of the most significant expressions of a society's social and political development. In recent years social scientists from many disciplines have begun to analyze the interplay between law and society. We live in a period of widespread public interest in law that arises from a concern with problems of social justice, social control and social deviance. Academic disciplines such as anthropology, economics, history, philosophy, political science, psychology and sociology have increasingly focused on such issues as the nature and origin of law; law-making and law-breaking; rights and obligations; freedom and responsibility and law as social policy. These are matters of increasing concern to teachers, social workers, businessmen, doctors and public servants whose professional responsibilities demand a knowledge of the relationship of law to their own fields.

The goals of the program may be stated briefly: to affirm the intellectual importance of the study of law and society and law in society; to provide a framework within which faculty and students may explore, within disciplines and between them, descriptive and analytic approaches to the subject; and to sharpen the appreciation of law as part of the active daily life of the student.

The program must be seen within the context of a liberal education. It is not a pre-law school program or a prerequisite for law school admission. It is designed for interested undergraduate students, whatever their future career orientation.

*Note: For a list of degree requirements please consult the Faculty of Arts "Programs of Study" section.*

## Departmental and Divisional Courses in Law and Society

Descriptions of the content and format of these courses are contained in the appropriate departmental and divisional listings in this Calendar. Not all courses will necessarily be offered in any given year; details of courses to be offered, as well as complete descriptions and reading lists are available in the Law and Society section of the supplementary calendar for Interdisciplinary Programs available each spring from the Division of Social Science, Faculty of Arts.

AS/ANTH 4200 M 6.0 A Socio-Cultural Perspective on Local-Level Politics.  
AS/ECON 3240 3.0 Labour Economics – Theory.  
AS/ECON 3250 3.0 Labour Economics – Institutions.  
AS/ECON 4309 3.0 Law and Economics.  
AS/HIST 2500 6.0 Canadian History.  
AS/HIST 3415 6.0 Law, Property and Freedom in Britain and its Empire.  
AS/HIST 3591 6.0 Politics, Law and the Constitution in Modern Canada.  
AS/LING 2400 3.0 Language in its Social Context.  
AS/LING 2450 3.0 Language and the Law.  
AS/PHIL 2050 6.0 Philosophy of Law.  
AS/PHIL 2060 3.0 Social and Political Philosophy.  
AS/PHIL 2070 3.0 Introduction to Ethics.  
AS/PHIL 2075 3.0 Introduction to Applied Ethics.  
AS/PHIL 3110 3.0 Political Philosophy.  
AS/PHIL 4190 3.0 Topics in the Philosophy of Law.  
AS/POLS 2040 6.0 Introduction to Political Theory.  
AS/POLS 3075 3.0 Law, Justice and Jurisprudence.  
AS/POLS 3165 6.0 Problems in Canadian Business Law. (Cross-listed to: AS/SOSC 3165 6.0)  
AS/POLS 3600 3.0 Public Law I.  
AS/POLS 3605 3.0 Public Law II.  
AS/POLS 4015 3.0 Theories of Justice.  
AS/POLS 4440 3.0 Human Rights in Europe.  
AS/POLS 4445 3.0 European Union.  
AS/POLS 4600 3.0 Judicial Administration in Canada.  
AS/POLS 4601 3.0 Systems of Justice.  
AS/PSYC 2120 3.0 Social Psychology.  
AS/PSYC 3140 3.0 Abnormal Psychology.  
AS/SOSC 1210 9.0 Human Rights and Canadian Minorities.  
AS/SOSC 1350 9.0 Women and the Law.  
AS/SOSC 2330 9.0 The Economics of Law, Policy and Organizations.

**AS/SOSC 2350 6.0 Law and Society.** This course examines the interrelationship between law and the social sciences with emphasis on types of legal thought, the function of law in society, legal systems and a variety of specific issues involving Canadian society and law, such as the legal profession, the criminal process, civil and political rights, and family law.

*Note: This course is required of students registered in the Law and Society program, but also is open to others.*

AS/SOSC 3030 6.0 Crime and Punishment in Western Societies.

AS/SOSC 3165 6.0 Problems in Canadian Business Law. (Cross-listed to: AS/POLS 3165 6.0)

AS/SOSC 3360 6.0 The Charter of Rights and Freedoms.

AS/SOSC 3370 6.0 Social Justice and Law.

AS/SOSC 3380 6.0 Law, Labour and the State.

AS/SOSC 3381 6.0 Criminal Justice System.

AS/SOSC 3390 6.0 Special Topics in Law and Society.

AS/SOSC 3990B 6.0 Popular Trials.

AS/SOSC 3990C 3.0 Strategies of Social Science Research.

### AS/SOSC 4350 6.0 Law and Society Seminar.

This course, limited to and required of Law and Society students, examines theories and practice relating to the interaction of law and society, depending on student and faculty interest in one or other specific topics.

AS/SOCI 2070 6.0 Social Order and Social Organization.

AS/SOCI 3430 6.0 Ethnicity, Power and Identity.

AS/SOCI 3810 6.0 Sociology of Crime and Delinquency.

AS/SOCI 4440 6.0 Race, Minorities and the Legal Order.

AS/SOCI 4810 6.0 Women and the Criminal Justice System.

AS/SOCI 4840 6.0 Sociology of Policing.

AS/SOCI 4850 3.0 Organized Crime.

### Atkinson

AK/POLS 3209G 6.0 Law and Society: Legal Institutions and Social Justice.

AK/PSYC 3210 3.0 Social Psychology.

AK/PSYC 3215 3.0 Abnormal Psychology.

### Fine Arts

FA/INFA 4920 3.0 The Arts and the Law: Policies and Perspectives.

*Note: other courses may be added to this list of recognized and approved courses from time to time. For the current full list, see the supplementary calendar for Interdisciplinary programs available through the Division of Social Science office.*

Seneca College of Applied Arts and Technology offers a one year diploma program in Court and Tribunal Administration for York graduates who have completed the Honours Double Major Interdisciplinary BA program in Law and Society and one of the affiliated departments. For information about the



Seneca College program, contact the Director, Court and Tribunal Administration Program, Seneca College, 1750 Finch Avenue East, Toronto, M2J 2X5, 416-491-5050, ext. 2816.

Students applying for admission to York University on the basis of their Seneca College diploma in Court and Tribunal Administration would be expected to satisfy the usual admission requirements as specified in the University Undergraduate Calendar for the session to which they are applying.

## General Certificate in Law and Society

The Law and Society program offers a certificate to students who take SOSC 2350 6.0 and an additional 18 credits from the list of approved courses. Six of these credits must be at the 4000-level. Students who apply for a Certificate will be asked to indicate whether they are eligible for the Certificate on the application form they fill out (Application to Graduate form) prior to their graduation. For further information, please contact the secretary or coordinator of the Law and Society program.

## Linguistics – Arts

### Department Office:

S561 Ross, 416-736-5016

### Program Coordinator:

P. Avery

Linguistics is concerned with discovering the principles in terms of which natural languages are organized and applying these principles to the description of individual languages. Using systematic descriptions of language and language usage, linguists also investigate how language interacts with our intellectual life.

Because language mediates virtually all forms of human endeavour, the study of linguistics can provide new perspectives on almost every aspect of the humanities and social sciences. In addition, it has applications to primary and secondary education, speech-language pathology and the applied sciences of communication engineering and computer science.

*Note: For degree requirements, please consult the Faculty of Arts "Programs of Study" section.*

## Courses in Linguistics

*Note: Not all courses will necessarily be offered in any given year; consult the department's supplemental calendar for details of courses to be offered.*

**AS/LING 1000 6.0 Introduction to Linguistics.** An examination of fundamental principles of language organization including the study of phonetics, phonology, morphology and syntax from both practical and theoretical points of view with illustrations from English and a variety of other languages. Brief survey of the areas of sociolinguistics, child language

acquisition, historical linguistics and psycholinguistics.

**AS/LING 2060 6.0 The Grammatical Structure of English.** An investigation of the grammatical structure of modern English, including phonology, morphology, syntax and semantics, within a linguistic framework.

*Cross-listed to: AS/EN 2060 6.0.*

**AS/LING 2110 3.0 Articulatory Phonetics.** An investigation of speech sounds in terms of anatomy and physiology. Practice in discrimination and production of speech sounds.

*Prerequisite: AS/LING 1000 6.0 or permission of the department.*

**AS/LING 2120 3.0 Fundamentals of Phonological Analysis.** Practical techniques of phonological analysis exemplified by data taken from a variety of languages. Practice in the use of distinctive features and rule formalisms.

*Prerequisite: AS/LING 1000 6.0 or equivalent, with a grade of C.*

**AS/LING 2140 3.0 Fundamentals of Grammatical Analysis.** Practical techniques of grammatical analysis exemplified by data taken from a variety of languages.

*Prerequisite: AS/LING 1000 6.0 or equivalent, with a grade of C.*

**AS/LING 2400 3.0 Language in its Social Context.** An introduction to the study of language as a social phenomenon. Topics covered include language varieties; stereotypes and social identity; language, culture and thought; communicative competence; bilingualism and diglossia; languages in contact; language and social deprivation; and language planning and language policy.

*Prerequisite: None.*

**AS/LING 2410 3.0 Language and Gender.** This course explores the relationship between language and sex/gender systems from a feminist perspective. The main areas dealt with are language and sex stereotypes; language, power and women's status; and male vs female communicative style in different sociocultural contexts.

*Cross-listed to: AS/AK/GL/WMST 2501 3.0, GL/SOSC 2900E 3.0.*

*Prerequisite: None.*

**AS/LING 2430 3.0 Language, Power and Persuasion.** This course investigates the language of power and persuasion. The language used by powerful and powerless groups is analyzed to determine how it reinforces positions of dominance and subordination. The role of language in public persuasion is also considered.

*Prerequisite: None.*

## AS/LING 2440 3.0 Languages and Societies.

The study of the distribution, spread and interaction of language varieties; language and cultural conflict; and language and cultural change. The course surveys past and present language situations in major culture-areas, such as Europe, East Asia, the Arab world and South Asia.

*Prerequisite: AS/LING 2400 3.0 or permission of the department.*

## AS/LING 2450 3.0 Language and the Law.

This course explores ways in which the discipline of linguistics can shed light on the use of language in the legal system. Topics include the special characteristics of written legal language, spoken language in the courtroom and linguists as expert witnesses.

**AS/LING 3040 3.0 Historical Linguistics.** An introduction to the study of the development of language systems through time, including the principles of genetic classification of languages, comparative grammar and internal reconstruction.

*Prerequisite: AS/LING 2120 3.0 with a grade of C+ or better, or permission of the department.*

**AS/LING 3050 3.0/3050 6.0 Special Topics in Linguistics.** A half-year course or full-year seminar on particular topics not ordinarily available. Requests for such offerings and information about courses or seminars available in a given year should be addressed to the departmental office.

**AS/LING 3060 3.0 Linguistic History of English.** A study of the principal changes in the English language from Anglo-Saxon times to the present day.

*Prerequisite: AS/LING 2120 3.0 and AS/LING 2140 3.0 with a grade of C or better, or permission of the department.*

*Degree credit exclusion: AS/LING 4060 3.0.*

**AS/LING 3110 3.0 Topics in Phonetics.** This course continues and complements the work of AS/LING 2110 3.0 Articulatory Phonetics. It includes further study of speech physiology, further practice in sound production and recognition, especially of 'exotic' sounds and lexical tone; examination of one or more complete phonetic systems; and work in linguistic phonetics.

*Prerequisite: Completion of AS/LING 2110 3.0 Articulatory Phonetics, with a grade of at least C+, or equivalent work in phonetics satisfactory to the department.*

**AS/LING 3120 3.0 Phonology.** Theoretical principles and practical techniques of phonological analysis exemplified by data taken from a variety of languages.

*Prerequisite: AS/LING 2110 3.0 and AS/LING 2120 3.0 or equivalent.*

**AS/LING 3140 3.0 Syntax.** This course provides a basic introduction to generative syntax, in particular to the recent work of Noam Chomsky and his followers. Although most of the data analyzed will be English, syntactic patterns of some other languages will be discussed.



*Prerequisite: AS/LING 2140 3.0 or equivalent.*

**AS/LING 3150 3.0 Semantics.** This course provides an introduction to sentence-level semantics. Some topics in word-level semantics are also considered. Issues are examined primarily from the perspective of a version of Truth-Conditional Semantics.

*Prerequisite: AS/LING 2140 3.0 or permission of the department.*

*Degree credit exclusion: AS/LING 4800C 3.0.*

**AS/LING 3160 3.0 Discourse Analysis.** This course provides an analysis of spoken and written texts in context. Specific topics include spoken vs. written discourse; the role of context in the interpretation of utterances; cohesion and coherence; and the relationship between information structuring and grammatical forms.

*Prerequisite: AS/LING 1000 6.0 or AS/LING 2060 6.0.*

**AS/LING 3210 3.0 First Language Acquisition.** This course surveys first language acquisition from a variety of approaches, including social interactionist, innatist and information processing.

*Prerequisite: AS/LING 1000 6.0 or AS/LING 3220 3.0 (cross-listed to AS/PSYC 3290 3.0).*

**AS/LING 3220 3.0 Psycholinguistics.** A survey of psycholinguistic research and theory; topics include language acquisition, psychological correlates of transformational grammars, information-processing approaches to language.

*Cross-listed to: AS/PSYC 3290 3.0.*

*Prerequisite: AS/LING 1000 6.0 or AS/PSYC 1010 6.0.*

*Degree credit exclusion: AK/PSYC 3250 3.0.*

**AS/LING 3240 3.0 Second Language Acquisition.** This course deals with the main issues of second language acquisition. Topics treated include similarities and differences between first and second language acquisition, bilingualism and various theories such as interlanguage, the contrastive analysis hypothesis and the monitor model.

*Prerequisite: AS/LING 1000 6.0 or AS/LING 3220 3.0.*

*Degree credit exclusion: AS/LING 3230 3.0.*

**AS/LING 3410 3.0 Writing Systems.** This course deals with the interaction of spoken language and writing structure; functioning and cultural spread of writing systems; historical relationships; and orthographic change, reform and design. Systems studied include Roman, Greek, Cyrillic, Arabic and Hebrew alphabets, and systems of the Indian subcontinent, Korea, China and Japan.

*Prerequisite: AS/LING 1000 6.0, or AS/LING 2060 6.0 or permission of the department.*

**AS/LING 3600 3.0 Socio-Political Issues in Second Language Teaching.** Teaching English to speakers of other languages (TESOL) takes place within a complex socio-political context. Selected issues are used to consider how this context influences the teaching/learning process.

*Prerequisite: None.*

*Note: This course does not count towards Linguistics major credit.*

**AS/LING 4050 3.0 Topics in Historical Linguistics.** This course includes further study of the comparative method and internal reconstruction, the role of typology, and the weighing of different types of evidence, using these as a springboard to consideration of topics of current interest to practising historical linguists.

*Prerequisite: AS/LING 3040 3.0 with a minimum grade of C+, or permission of the department.*

**AS/LING 4070 3.0 A History of the Romance Language Family.** A study of the evolution of the various members of the Romance family from Latin to the present day, with emphasis on French, Spanish and Italian.

*Prerequisite: Completion of AS/LING 3040 3.0 with a grade of C+ or better, or permission of the department.*

**AS/LING 4120 3.0 Phonological Theories.** This course concentrates on recent developments in phonological theory within a generative framework. Specific topics include the representation of segments, autosegmental phonology, syllable structure, metrical phonology and lexical phonology.

*Prerequisite: AS/LING 3120 3.0 with a grade of C+ or better, or permission of the department.*

**AS/LING 4140 3.0 Grammatical Theories.** This course examines the metatheoretical issues and assumptions underlying the development of different linguistic theories. The foundations and formal framework of Government-Binding Theory, the most recent version of Chomsky's Extended Standard Theory, will be introduced and later compared with a competing linguistic theory.

*Prerequisite: AS/LING 3140 3.0 with a grade of C+ or better, or permission of the department.*

**AS/LING 4210 3.0 Theoretical Issues in First Language Acquisition.** This course treats the acquisition of linguistic structures as seen from the perspectives of principles and parameters theory, the competition model and current theories of phonological development.

*Prerequisite: AS/LING 3120 3.0, AS/LING 3140 3.0 and AS/LING 3210 3.0 with grades of C+ or better, or permission of the department.*

**AS/LING 4220 3.0 Acoustic Phonetics.** An investigation of acoustic-phonetic aspects of speech and their relation to speech perception and recognition. Practical experience in techniques of acoustic-phonetic research.

*Prerequisite: AS/LING 2110 3.0 and AS/LING 2120 3.0 with grades of C+ or better, or permission of the department.*

**AS/LING 4230 3.0 Language Disorders.** This course surveys a variety of language disorders, among them aphasia, delayed language development, dyslexia and language dissolution in old age. Specific disorders are

discussed within a psycholinguistic framework. There will be some discussion of basic strategies for therapy.

*Prerequisites: Completion of AS/LING 3120 3.0, AS/LING 3140 3.0 and AS/LING 3220 3.0 (Cross-listed to: AS/PSYC 3290 3.0) with grades of C+ or better, or permission of the department.*

**AS/LING 4240 3.0 Theoretical Issues in Second Language Acquisition.** An examination of the relationship between linguistic theory and second language acquisition including the nature of second language learners' linguistic representations from both linguistic and neurolinguistic perspectives, the role of Universal Grammar, and elicitation and interpretation of second language data.

*Prerequisite: Completion of AS/LING 3240 3.0 (formerly AS/LING 3230 3.0) with a grade of B+ and AS/LING 3120 3.0 and AS/LING 3140 3.0 with grades of B, or permission of the department.*

**AS/LING 4320 6.0 Field Methods.** This course provides students with the skills and techniques necessary to conduct independent linguistic field work.

*Prerequisites: Completion of AS/LING 2110 3.0, AS/LING 3120 3.0 and AS/LING 3140 3.0 with grades of C+ or better, or permission of the department.*

**AS/LING 4400 3.0 Sociolinguistic Variation and Change.** This course examines language variation and change. Sociolinguistic variation is not random, but systematically reflects both social organization and features of the sociolinguistic context. Students will gain experience in all stages of sociolinguistic research and do an original research paper.

*Prerequisites: AS/LING 2120 3.0, AS/LING 2140 3.0 and AS/LING 2400 3.0 with grades of C+ or better, or permission of the department.*

*Degree credit exclusion: AS/LING 3400 3.0.*

**AS/LING 4440 3.0 Topics in Grammatical Change.** This course deals with morphosyntactic change from a broadly generative perspective. It focuses on large-scale changes, changes resulting in dialectal variation, and changes in progress. Both language-internal and language-external mechanisms by which change takes place are considered.

*Prerequisites: AS/LING 2140 3.0 and AS/LING 3140 3.0, both with grades of C+ or better. AS/LING 2400 3.0 and AS/LING 3040 3.0 are recommended.*

*Degree credit exclusion: AS/LING 4800B 3.0.*

**AS/LING 4900 3.0/4900 6.0 Independent Study.** Students may arrange to undertake independent study with a member of the Linguistics program. This allows students and instructors to work on topics of mutual interest which lie outside the usual course offerings. Contact the undergraduate coordinator for details.

*Note: Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

## Mathematics and Statistics – Arts, Pure and Applied Science

### Department Office:

N520 Ross, 416-736-5250

### Chair of the Department:

T. Salisbury

### Professors:

M. Abramson, R.G. Burns, A. Dow, S. Guiasu, I. Kleiner, S. Kochman, J. Laframboise, N.N. Madras, K.R. Maltman, H. Massam, M.E. Muldoon, G.L. O'Brien, P. Olin, J. Wick Pelletier, S.D. Promislow, P. Rogers, T. Salisbury, A.D. Stauffer, J. Steprans, P.A. Taylor, W. Tholen, E.J.J. van Rensburg, S. Watson, A. Weiss, W.J. Whiteley, M.W. Wong, J. Wu, Y. Wu

### Professors Emeriti:

D.A.S. Fraser, C. Hruska, L. Lorch, R.P. McEachran, D.C. Russell, A. Shenitzer, D. Solitar

### Associate Professors:

N. Bergeron, J.M.N. Brown, R.L.W. Brown, K. Bugajska, S.R. Chamberlin, G.E. Denzel, R.A. Ganong, L.S. Hou, A. Kushniruk, G.A. Monette, D.H. Pelletier, P.H. Peskun, A. Pietrowski, N. Purzitsky, A.M.K. Szeto, D. Tanny

### Associate Professors Emeriti:

D.W.T. Bean, J.H. Grant, S.W. Lee, T. MacHenry, R.A. Schaufele

### Assistant Professors:

Y. Gao, A. Gibbs, H. Huang, D. Liang, D.M. Salopek, P. Song

### Special Renewable Contract:

E. Brettler

### NSERC Women's Faculty Awardee:

F. Vinette

The Department of Mathematics and Statistics offers a wide range of courses in both pure and applied mathematics and statistics. These meet the needs of students who wish to major in mathematics or statistics as well as those who require some knowledge of mathematics or statistics in other disciplines. In addition, there are courses for those who have a general interest in these subjects.

**Actuarial Profession.** Students interested in the actuarial profession should consult the Department of Mathematics and Statistics for guidance. The department will be glad to suggest a program of courses which will be helpful in preparing for examinations of the Society of Actuaries.

**Operations Research.** The Canadian Operational Research Society (CORS) has recognized that graduation from a program in Applied Mathematics, Mathematics, or Statistics with a prescribed set of courses will qualify a student for the Diploma in Operations Research awarded by CORS. Interested students should consult the Department of Mathematics and Statistics for guidance.

For specific requirements of programs offered by this department, see the Faculty of Arts "Programs of Study" section of this Calendar for BA and BA Honours programs and Science section V for BSc and BSc Honours programs.

## Courses in Mathematics and Statistics

When selecting courses, please note the following:

1. A student taking lower-level mathematics courses may wish to make use of the services provided by the department's Mathematics Laboratory.

2. AS/SC/MATH 1510 6.0 is intended for students who, despite having one or more OACs in mathematics (or equivalents), have a weak mathematical background. AS/SC/MATH 1510 6.0 can serve as preparation for AS/SC/MATH 1515 3.0 and from there entrance to further calculus courses.

3. Note on calculus courses for first-year students.

a) BBA Honours students who wish to take only a minimum amount of mathematics should take both AS/MATH 1530 3.0 and AS/MATH 1540 3.0, or AS/AK/MATH 1550 6.0. The prerequisite for these courses is AS/SC/MATH 1515 3.0 or OAC Calculus or equivalent.

b) Science students (particularly those majoring in Biology, Geography, Kinesiology and Health Science, or Psychology) who do not require other specific calculus courses to satisfy degree requirements or as prerequisites for higher-level courses, may take SC/MATH 1505 6.0 to satisfy the Faculty of Pure and Applied Science 1000-level mathematics requirement.

Other students should be guided by paragraphs (c) and (d) below.

c) A student with at least one OAC in mathematics or equivalent, but without previous calculus, must begin the study of calculus with AS/SC/MATH 1515 3.0.

d) A student with OAC Calculus or equivalent can begin with AS/SC/MATH 1000 3.0 or AS/SC/MATH 1013 3.0 or AS/SC/AK/MATH 1300 3.0 and then take AS/SC/MATH 1010 3.0 or AS/SC/MATH 1014 3.0 or AS/SC/AK/MATH 1310 3.0.

**4. Course numbering.** Courses with second digit 5 cannot be used to satisfy departmental degree requirements except (i) by students in the Bachelor program in Mathematics for Commerce; and (ii) by students in other programs in a few cases as noted in program descriptions.

With the exception of AS/MATH 1530 3.0, MATH courses with third digit 3 involve statistics.

Unless otherwise specified, courses whose numbers end in "6.0" (i.e. six-credit courses) have three lecture hours per week for two terms, while those whose numbers end in "3.0" (i.e. three-credit courses) have three lecture hours per week for one term. In addition, problem sessions or tutorials are scheduled for many courses.

5. Arts students should note that some Atkinson Faculty of Liberal and Professional Studies courses are out-of-Faculty and there are restrictions on the number of out-of-Faculty courses that may be taken. Science students should note that some Atkinson Faculty of Liberal and Professional Studies courses are out-of-department - see the restrictions in note 2. under "Mathematics and Statistics" in Science section V.

Atkinson Faculty of Liberal and Professional Studies MATH courses which are cross-listed with MATH courses offered by the Faculties of Arts and Pure and Applied Science are identified in the course outlines below. For a list of other Atkinson Faculty of Liberal and Professional Studies courses which are equivalent to and/or degree credit exclusions for MATH courses in this Calendar, Arts students should consult the Faculty of Arts Degree Credit Exclusion/Equivalent Tables in the back of the Lecture Schedules. Science students should consult the Faculty of Pure and Applied Science Degree Credit Exclusion/Equivalent Tables in the back of the Lecture Schedules and in the Office of Science Academic Services beginning in March each year.

**AS/SC/MATH 1000 3.0 Differential Calculus (Honours Version).** Axioms for real numbers, limits, continuity and differentiability. This course covers slightly fewer topics than AS/SC/AK/MATH 1300 3.0, but covers them in greater depth. It should be taken by all those planning an Honours degree in Mathematics or a Specialized Honours degree in Statistics.

*Prerequisite:* AS/SC/MATH 1515 3.0 or OAC Calculus or equivalent.

*Degree credit exclusions:* AS/SC/MATH 1013 3.0, AS/SC/AK/MATH 1300 3.0, AS/SC/MATH 1505 6.0, AS/MATH 1530 3.0, AS/AK/MATH 1550 6.0, AS/ECON 1530 3.0.

**AS/SC/MATH 1010 3.0 Integral Calculus (Honours Version).** Riemann integral, fundamental theorems of calculus, transcendental functions, integration techniques, sequences, series. This course covers fewer topics than AS/SC/AK/MATH 1310 3.0, but covers them in greater depth. It should be taken by all those planning an Honours degree in Mathematics or a Specialized Honours degree in Statistics.

*Prerequisite:* AS/SC/MATH 1000 3.0 or permission of the department.

*Degree credit exclusions:* AS/SC/MATH 1014 3.0, AS/SC/AK/MATH 1310 3.0, AS/SC/MATH 1505 6.0, AS/SC/AK/MATH 3110 3.0.

**AS/SC/MATH 1013 3.0 Applied Calculus I.** The first half of this course deals with differentiation and the second half with integration. Topics include derivatives of algebraic and transcendental functions, indefinite integrals, techniques of integration, the definite integral and its interpretation as an area.

*Prerequisite:* AS/SC/MATH 1515 3.0 or OAC Calculus.

*Degree credit exclusions:* AS/SC/MATH 1000 3.0, AS/SC/AK/MATH 1300 3.0, AS/SC/MATH 1505 6.0, AS/MATH 1530 3.0, AS/AK/MATH 1550 6.0, AS/ECON 1530 3.0.

**AS/SC/MATH 1014 3.0 Applied Calculus II.** Applications of differential and integral calculus (e.g. maxima and minima, areas, volumes of revolution, moments and centroids etc.), indeterminate forms, improper integrals, Taylor series, simple ordinary differential equations and an introduction to multivariate calculus.

*Prerequisite(s):* One of AS/SC/MATH 1000 3.0, AS/SC/MATH 1013 3.0, AS/SC/AK/MATH 1300 3.0, or, for non-Science students only, six credits from AS/MATH 1530 3.0 and AS/MATH 1540 3.0, AS/AK/MATH 1550 6.0, AS/ECON 1530 3.0 and AS/ECON 1540 3.0.

*Degree credit exclusions:* AS/SC/MATH 1010 3.0, AS/SC/AK/MATH 1310 3.0, AS/SC/MATH 1505 6.0.

**AS/SC/MATH 1016 1.0 Applied Mathematics Module I.** Designed for students in Applied Mathematics to complement and enrich the material in AS/SC/MATH 1013 3.0. The module treats the theory in greater depth, and explores extended applications and modelling. One lecture hour per week. One term. One credit.

*Prerequisite:* OAC Calculus or AS/SC/MATH 1515 3.0.

*Prerequisite or corequisite:* AS/SC/MATH 1013 3.0.

*Note:* AS/SC/MATH 1016 1.0 must be taken within the first 60 credits of a student's program.

**AS/SC/MATH 1017 1.0 Applied Mathematics Module II.** Designed for students in Applied Mathematics to complement and enrich the material in AS/SC/MATH 1014 3.0. The module treats the theory in greater depth, and explores extended applications and modelling. One lecture hour per week. One term. One credit.

*Prerequisites:* AS/SC/MATH 1013 3.0; AS/SC/MATH 1016 1.0.

*Prerequisite or corequisite:* AS/SC/MATH 1014 3.0.

*Note:* AS/SC/MATH 1017 1.0 must be taken within the first 60 credits of a student's program.

**AS/SC/AK/MATH 1021 3.0 Linear Algebra I.** (formerly AS/SC/MATH 2021 3.0 — before 2001-2002) Linear equations, matrices, Gaussian elimination, determinants and vector spaces. This course covers material similar to that in AS/SC/AK/MATH 2221 3.0 but at a more advanced level. Required in Specialized Honours Statistics and in all Applied Mathematics, Mathematics and Mathematics for Commerce programs except the BA program in Mathematics for Commerce.

*Prerequisite:* One OAC mathematics course or equivalent.

*Degree credit exclusions:* AS/SC/MATH 1025 3.0, AS/SC/MATH 2021 3.0, AS/SC/AK/MATH 2221 3.0.

**AS/SC/MATH 1025 3.0 Applied Linear Algebra.** Topics include spherical and cylindrical coordinates in Euclidean 3-space, general matrix algebra, determinants, vector space concepts for Euclidean n-space (e.g. linear dependence and independence, basis, dimension, linear transformations etc.), an introduction to eigenvalues and eigenvectors.

*Prerequisite:* OAC Algebra and Geometry.

*Degree credit exclusions:* AS/SC/AK/MATH 1021 3.0, AS/SC/MATH 2021 3.0, AS/SC/AK/MATH 2221 3.0.

**AS/SC/AK/MATH 1090 3.0 Introduction to Logic for Computer Science.** The syntax and semantics of propositional and predicate logic. Applications to program specification and verification. Optional topics include set theory and induction using the formal logical language of the first part of the course.

*Prerequisite:* One OAC in mathematics or equivalent, or AK/MATH 1710 6.0.

*Degree credit exclusion:* This course may not be taken for degree credit by any student who has passed AS/SC/AK/MATH 4290 3.0.

**AS/SC/AK/MATH 1131 3.0 Introduction to Statistics I.** Displaying and describing distributions; relations in categorical data; Simpson's paradox and the need for design; experimental design and sampling design; randomization; probability laws and models; central limit theorem; statistical inference including confidence intervals and tests of significance; matched pairs; simulation.

*Prerequisite:* At least one OAC in mathematics is recommended.

*Degree credit exclusions:* AS/SC/AK/MATH 2560 3.0, SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 2500 3.0, AS/SC/GEOG 2420 3.0, AS/SC/KINE 2050 3.0, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0, AS/SOCI 3030 6.0.

**AS/SC/AK/MATH 1190 3.0 Introduction to Sets and Logic.** Sets, functions, relations, induction, proof techniques, logic and logic circuits, basic combinatorics and some basic graph theory.

*Prerequisite:* One OAC in mathematics or equivalent, or AK/MATH 1710 6.0.

*Degree credit exclusions:* This course may not be taken for degree credit by any student who has passed AS/SC/AK/MATH 1090 3.0 or AS/SC/MATH 1120 3.0 or any 3000- or higher-level MATH course.

*Note:* Students who plan to major or minor in Computer Science must take AS/SC/AK/MATH 1090 3.0 instead of this course.

**AS/SC/AK/MATH 1300 3.0 Differential Calculus with Applications.** Limits, derivatives with applications, antiderivatives, fundamental theorem of calculus, beginnings of integral calculus.

*Prerequisite:* AS/SC/MATH 1515 3.0 or AK/MATH 1710 6.0 or OAC Calculus or equivalent.

*Degree credit exclusions:* AS/SC/MATH 1000 3.0, AS/SC/MATH 1013 3.0, AS/SC/MATH 1505 6.0, AS/MATH 1530 3.0, AS/AK/MATH 1550 6.0, AS/ECON 1530 3.0.

**AS/SC/AK/MATH 1310 3.0 Integral Calculus with Applications.** Transcendental functions, differential equations, techniques of integration, improper integrals, infinite series.

*Prerequisite(s):* One of AS/SC/MATH 1000 3.0, AS/SC/MATH 1013 3.0, AS/SC/AK/MATH 1300 3.0, or, for non-Science students only, six credits from AS/MATH 1530 3.0 and AS/MATH 1540 3.0, AS/AK/MATH 1550 6.0, AS/ECON 1530 3.0 and AS/ECON 1540 3.0.

*Degree credit exclusions:* AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AS/SC/MATH 1505 6.0.

**AS/SC/MATH 1505 6.0 Mathematics for the Life and Social Sciences.** A presentation of the elements of single-variable differential and integral calculus, elementary linear algebra and introductory probability and statistics. This course is designed to provide a comprehensive mathematical background for students of the biological and social sciences. Emphasis is placed on basic mathematical skills and their applications.

*Prerequisite:* At least one OAC in mathematics or AS/SC/MATH 1510 6.0.

*Degree credit exclusions:* AS/SC/MATH 1000 3.0, AS/SC/MATH 1010 3.0, AS/SC/MATH 1013 3.0, AS/SC/MATH 1014 3.0, AS/SC/AK/MATH 1300 3.0, AS/SC/AK/MATH 1310 3.0, AS/MATH 1530 3.0, AS/MATH 1540 3.0, AS/AK/MATH 1550 6.0, AS/ECON 1530 3.0, AS/ECON 1540 3.0.

**AS/SC/MATH 1510 6.0 Fundamentals of Mathematics.** Designed for the student whose mathematical background is weak and who wishes to take further courses in mathematics. Topics include algebraic equations and inequalities; simple sequences and series; analytic geometry; trigonometry; functions, including algebraic, exponential, logarithmic and trigonometric functions.

*Degree credit exclusions:* AS/MATH 1520 6.0. May not be taken by any student who has taken or is currently taking another university course in mathematics or statistics except for AS/SC/MATH 1500 3.0 or AS/SC/MATH 1515 3.0.

**AS/SC/MATH 1515 3.0 Introduction to Calculus.** Elements of differential calculus, antiderivatives and integrals, with applications. Designed for students who have not taken (or have performed inadequately in) OAC Calculus.

*Prerequisite:* One OAC in mathematics or AS/SC/MATH 1510 6.0 or equivalent, or permission of the department. This course may be taken at the same time as the second half of AS/SC/MATH 1510 6.0.

*Degree credit exclusions:* AS/SC/MATH 1500 3.0. May not be taken by any student who has taken or is currently taking another university course in calculus.

**AS/MATH 1530 3.0 Introductory Mathematics for Economists I.** This course introduces and develops topics in differential calculus, integral calculus and their applications in economics. This course or equivalent is required for all Economics majors or minors; it also satisfies the mathematics requirement for the Schulich School of Business. It is suitable for the Bachelor

program in Mathematics for Commerce, but should not be taken by those who intend to major in any other Mathematics or Statistics program or in Computer Science.

*Cross-listed to:* AS/ECON 1530 3.0.

*Prerequisite:* AS/SC/MATH 1515 3.0 or OAC Calculus or equivalent.

*Prerequisite or corequisite:* AS/ECON 1000 3.0 or AS/ECON 1010 3.0.

*Degree credit exclusions:* AS/SC/MATH 1000 3.0, AS/SC/MATH 1013 3.0, AS/SC/AK/MATH 1300 3.0, AS/SC/MATH 1505 6.0, AS/AK/MATH 1550 6.0, AS/ECON 1530 3.0.

**AS/MATH 1540 3.0 Introductory Mathematics for Economists II.** This course introduces and develops topics, including matrix algebra, optimization, comparative statics of general function models, and their applications in economics. This course or equivalent is required for all Economics majors or minors; it also satisfies the mathematics requirement for the Schulich School of Business.

*Cross-listed to:* AS/ECON 1540 3.0.

*Prerequisite:* One of AS/MATH 1530 3.0, AS/SC/MATH 1000 3.0, AS/SC/MATH 1013 3.0, AS/SC/AK/MATH 1300 3.0, AS/ECON 1530 3.0.

*Prerequisite or corequisite:* AS/ECON 1000 3.0 or AS/ECON 1010 3.0.

*Degree credit exclusions:* AS/SC/MATH 1505 6.0, AS/AK/MATH 1550 6.0, AS/ECON 1540 3.0. May not be taken by any student who has taken or is taking AS/SC/AK/MATH 1021 3.0 or AS/SC/MATH 1025 3.0 or AS/SC/MATH 2021 3.0 or AS/SC/AK/MATH 2221 3.0 or equivalent.

**AS/AK/MATH 1550 6.0 Mathematics with Management Applications.** This course is designed to provide a mathematical background for students in the BBA Honours program. It is also suitable for the Bachelor program in Mathematics for Commerce, but should not be taken by those who intend to major in any other program in Mathematics or Statistics or in Computer Science. It includes calculus, matrix algebra and elements of optimization with applications to management.

*Prerequisite:* AS/SC/MATH 1515 3.0 (may also be taken as a first-term corequisite) or OAC Calculus or equivalent.

*Degree credit exclusions:* AS/SC/MATH 1000 3.0, AS/SC/MATH 1013 3.0, AS/SC/AK/MATH 1300 3.0, AS/SC/MATH 1505 6.0, AS/MATH 1530 3.0, AS/MATH 1540 3.0, AS/ECON 1530 3.0, AS/ECON 1540 3.0. This course may not be taken by any student who has taken or is taking AS/SC/AK/MATH 1021 3.0 or AS/SC/MATH 1025 3.0 or AS/SC/MATH 2021 3.0 or AS/SC/AK/MATH 2221 3.0 or equivalent.

**AS/SC/MATH 1580 3.0 The Nature of Mathematics I.** Designed to create a positive attitude towards mathematics through an examination of topics relevant to the study of mathematics at the elementary school level. Topics include numeral systems, number

theory, nature of algebra and geometry. Intended primarily, but not exclusively, for Education students in the P/J stream.

*Degree credit exclusion:* Not open to any student who has taken or is taking another university mathematics course unless permission of the course coordinator is obtained.

### AS/MATH 1581 3.0 Business Mathematics

**I.** This course is an introduction to interest rates (simple, compound), annuities (ordinary, due, deferred), amortization (mortgages, other debts), sinking funds, bonds (face value, bond rate, price, yield rate) and depreciation (straight line, constant percentage).

*Prerequisite:* Ontario Grade 12 Mathematics or equivalent.

*Degree credit exclusion:* AS/AK/MATH 2580 6.0.

### AS/SC/MATH 1590 3.0 The Nature of Mathematics II.

A continuation of some of the themes explored in AS/SC/MATH 1580 3.0. Further topics include elements of probability and statistics, the nature of computers, elementary set theory and logic.

*Prerequisite:* AS/SC/MATH 1580 3.0 or permission of the course coordinator.

*Degree credit exclusion:* Not open to any student who has taken or is taking another university mathematics course (except AS/SC/MATH 1580 3.0) unless permission of the course coordinator is obtained.

### AS/SC/MATH 2010 3.0 Vector Differential Calculus.

Power series, partial derivatives, linear maps, differentiability of maps from  $n$ -space to  $m$ -space, chain rule, gradients, tangent lines to curves, tangent planes to surfaces, cross product, implicit function theorem, multidimensional Taylor's theorem with remainder, extrema, quadratic forms, Hessian, Lagrange multipliers.

*Prerequisite:* AS/SC/MATH 1010 3.0 or permission of the department.

*Degree credit exclusions:* AS/SC/MATH 2015 3.0, AS/SC/AK/MATH 2310 3.0.

### AS/SC/MATH 2015 3.0 Applied Multivariate and Vector Calculus.

Topics covered include partial derivatives; grad, div, curl and Laplacian operators; line and surface integrals; theorems of Gauss and Stokes; double and triple integrals in various coordinate systems; extrema and Taylor series for multivariate functions.

*Prerequisite:* One of AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AS/SC/AK/MATH 1310 3.0; or AS/SC/MATH 1505 6.0 plus permission of the course coordinator.

*Degree credit exclusions:* AS/SC/MATH 2010 3.0, AS/SC/AK/MATH 2310 3.0.

### AS/SC/MATH 2018 1.0 Applied Mathematics

**Module III.** Designed for students in Applied Mathematics to complement and enrich material in AS/SC/MATH 2015 3.0. The module treats the theory in greater depth, and

explores extended applications and modeling. One lecture hour per week. One term. One credit.

*Prerequisites:* AS/SC/MATH 1014 3.0; AS/SC/MATH 1017 1.0.

*Prerequisite or corequisite:* AS/SC/MATH 2015 3.0.

*Note:* AS/SC/MATH 2018 1.0 must be taken within the first 90 credits of a student's program.

### AS/SC/AK/MATH 2022 3.0 Linear Algebra II.

Inner product spaces, linear transformations, eigenvalues, diagonalization, least squares, quadratic forms and Markov chains. Similar to AS/SC/AK/MATH 2222 3.0 but at a more advanced level. Required in Specialized Honours Applied Mathematics, Specialized Honours Statistics and in all Mathematics and Mathematics for Commerce programs except the BA program in Mathematics for Commerce.

*Prerequisite:* AS/SC/AK/MATH 1021 3.0 or AS/SC/MATH 2021 3.0 or permission of the course coordinator.

*Degree credit exclusion:* AS/SC/AK/MATH 2222 3.0.

### AS/SC/AK/MATH 2030 3.0 Elementary Probability.

Introduction to the theory of probability as preparation for further study in either mathematical or applied probability and statistics. Topics include probability spaces, conditional probability, independence, random variables, distribution functions, expectation, Chebyshev's inequality, common distributions, moment-generating functions and limit theorems.

*Prerequisite:* One of AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AS/SC/AK/MATH 1310 3.0.

### AS/SC/MATH 2041 3.0 Symbolic Computation Laboratory I.

An introduction to symbolic computing in the Maple environment. Topics from single-variable differential and integral calculus, including simple ordinary differential equations, are covered. Both mathematical understanding and applications are emphasized. Three lecture hours, open laboratory hours. One term. Three credits.

*Prerequisites:* AK/AS/SC/COSC 1540 3.0 or equivalent computing experience; AS/SC/MATH 1010 3.0 or AS/SC/MATH 1014 3.0 or AS/SC/AK/MATH 1310 3.0.

*Degree credit exclusion:* AS/SC/MATH 2040 6.0.

### AS/SC/MATH 2042 3.0 Symbolic Computation Laboratory II.

Advanced symbolic computing with Maple. Topics from linear algebra, differential equations, multivariate calculus, integral theorems, are covered. Both mathematical understanding and applications are emphasized. Three lecture hours, open laboratory hours. One term. Three credits.

*Prerequisites:* AS/SC/MATH 2041 3.0; AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0 or AS/SC/AK/MATH 2310 3.0; AS/SC/AK/MATH 1021 3.0 or AS/SC/MATH 1025 3.0 or AS/SC/MATH 2021 3.0 or AS/SC/AK/MATH 2221 3.0.

*Prerequisites or corequisites:* AS/SC/AK/MATH 2270 3.0; AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0.

*Degree credit exclusion:* AS/SC/MATH 2040 6.0.

**AS/SC/AK/MATH 2090 3.0 Applications of Logic to Discrete Mathematics.** A continuation of AS/SC/AK/MATH 1090 3.0, this course uses formal logic to study topics in discrete mathematics, including sets, relations, functions, induction, the integers. Optional topics include program specification, sequences, recurrence relations.

*Prerequisite:* AS/SC/AK/MATH 1090 3.0 taken after Summer 1998.

**AS/SC/AK/MATH 2131 3.0 Introduction to Statistics II.** This course is a continuation of AS/SC/AK/MATH 2030 3.0. It provides students with an introduction to statistical methods with an emphasis on applications using continuous probability models.

*Prerequisites:* AS/SC/AK/MATH 2030 3.0; one of AS/SC/MATH 2010 3.0, AS/SC/MATH 2015 3.0, AS/SC/AK/MATH 2310 3.0.

*Degree credit exclusion:* Not open to any student who has passed or is taking AS/SC/AK/MATH 3131 3.0.

*Note:* Computer/Internet use may be required to facilitate course work.

**AS/SC/AK/MATH 2221 3.0 Linear Algebra with Applications I.** Systems of linear equations, linear and affine subspaces of Euclidean  $n$ -space, the Gauss-Jordan algorithm, matrices and matrix algebra, determinants, vector space concepts for Euclidean  $n$ -space (linear dependence and independence, basis, dimension etc.), various applications.

*Prerequisite:* OAC algebra or any university mathematics course.

*Degree credit exclusions:* AS/SC/AK/MATH 1021 3.0, AS/SC/MATH 1025 3.0, AS/SC/MATH 2021 3.0.

**AS/SC/AK/MATH 2222 3.0 Linear Algebra with Applications II.** Linear transformations and their representation by matrices, change of basis and similarity, eigenvalues and eigenvectors, diagonalization, inner product spaces, orthogonality, the Gram-Schmidt algorithm, least squares approximations, abstract vector spaces, various applications.

*Prerequisite:* AS/SC/AK/MATH 1021 3.0 or AS/SC/MATH 1025 3.0 or AS/SC/AK/MATH 2221 3.0.

*Degree credit exclusion:* AS/SC/AK/MATH 2022 3.0.

**AS/SC/MATH 2260 6.0 An Introduction to Combinatorics.** Basic graph theory, permutations, combinations, inclusion-exclusion principle, recurrence relations, generating functions, occupancy problems, application to probability theory, geometry of the plane, maps on the sphere, colouring problems, finite structures, systems of distinct representatives, existence problems, magic squares, Latin squares.

*Prerequisite:* One OAC in mathematics or equivalent.

**AS/SC/AK/MATH 2270 3.0 Differential Equations.** Introduction to differential equations, including a discussion of the formation of mathematical models for real phenomena;

solution by special techniques; applications; linear equations; solutions in series; other topics if time permits.

*Prerequisites:* AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0 or AS/SC/AK/MATH 2310 3.0; AS/SC/AK/MATH 1021 3.0 or AS/SC/MATH 1025 3.0 or AS/SC/MATH 2021 3.0 or AS/SC/AK/MATH 2221 3.0.

**AS/SC/MATH 2280 3.0 The Mathematical Theory of Interest.** Topics include measurement of interest, annuities, amortization of loans, bonds, sinking funds and depreciation. The course is at a level which will prepare students for the interest theory portion of the Society of Actuaries examinations.

*Prerequisite:* AS/SC/MATH 1010 3.0 or AS/SC/MATH 1014 3.0 or AS/SC/AK/MATH 1310 3.0.

*Degree credit exclusions:* AS/SC/MATH 2580 6.0, AS/MATH 2581 3.0.

**AS/SC/AK/MATH 2310 3.0 Calculus of Several Variables with Applications.** Vector functions, partial derivatives, gradient, multiple integrals, line integrals, optimization, applications.

*Prerequisites:* AS/SC/MATH 1010 3.0 or AS/SC/MATH 1014 3.0 or AS/SC/AK/MATH 1310 3.0. *Students should have a knowledge of vector algebra in two and three dimensions.*

*Degree credit exclusions:* AS/SC/MATH 2010 3.0, AS/SC/MATH 2015 3.0.

**AS/SC/AK/MATH 2320 3.0 Discrete Mathematical Structures.** Algebraic and combinatorial structures required in Computer Science and other disciplines. Review of sets; induction; combinatorics; graph theory, trees; big Oh-notation, complexity of algorithms; recursive definitions, recurrence relations; posets; congruence relations. This course emphasizes analysis, problem solving and proofs.

*Prerequisites:* AS/SC/AK/MATH 1190 3.0, or AS/SC/AK/MATH 1090 3.0, or AK/MATH 2441 3.0, or any 2000-level MATH course without second digit 5. *Students who have not taken AS/SC/AK/MATH 1190 3.0 or AS/SC/AK/MATH 2090 3.0 are advised to review set theory, functions, relations and induction proofs, before the course begins.*

**AS/SC/AK/MATH 2500 3.0 An Introduction to the Basic Practice of Statistics.** This course provides an introduction to the concepts of statistics with an emphasis on developing a critical attitude towards the use and misuse of statistics in business, health sciences and other areas.

*Degree credit exclusions:* AS/SC/KINE 2050 3.0, AS/SC/KINE 3150 3.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0, AS/SC/PSYC 2022 3.0. *May not be taken by students who have taken or are taking any university course in statistics.*

*Note:* Computer/Internet use may be required to facilitate course work.

**AS/SC/AK/MATH 2560 3.0 Elementary Statistics I.** Displaying and describing distributions, normal distribution. Relationships between variables, regression and correlation. The need for design, experimental design and sampling design. Sampling distributions, bias, variability. Probability models, random variables, probability laws.

*Prerequisite:* Ontario Grade 12 Advanced Mathematics.

*Degree credit exclusions:* AS/SC/AK/MATH 1131 3.0, SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 2500 3.0, AS/SC/GEOG 2420 3.0, AS/SC/KINE 2050 3.0, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0, AS/SOCI 3030 6.0.

**AS/SC/AK/MATH 2570 3.0 Elementary Statistics II.** Binomial distribution, sampling distribution of sample proportions and means, central limit theorem. Confidence intervals, tests and decisions, abuse of tests. Inference for a single mean, comparing two means, and for spread. Contingency tables. Simple regression and basic analysis of variance.

*Prerequisite:* AS/SC/AK/MATH 2560 3.0 or AS/SC/AK/MATH 1131 3.0.

*Degree credit exclusions:* AS/SC/MATH 1132 3.0, SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 3210 3.0, AS/ECON 3500 3.0, AS/SC/GEOG 2420 3.0, AS/SC/KINE 3150 3.0, AS/POLS 3300 6.0, AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2022 3.0, AS/SOCI 3030 6.0.

**AS/SC/AK/MATH 2580 6.0 Mathematics of Investment and Actuarial Science.** Theory of interest; annuities certain; amortization and sinking funds; evaluation of bonds and other investments; depreciation, depletion and capital cost; insurance, including mortality tables, principles of life annuities, premiums and reserves.

*Prerequisite:* One full university mathematics course.

*Degree credit exclusions:* AS/MATH 1581 3.0, AS/SC/MATH 2280 3.0, AS/MATH 2581 3.0.

**AS/MATH 2581 3.0 Business Mathematics II.** Spreadsheets and their application to business mathematics; deepening of topics in Business Mathematics I, including continuous compound interest, perpetuities, annuities where payments vary, callable bonds, bond yield rate, capital budgeting; mortality tables, life annuities, life insurance.

*Prerequisites:* AS/MATH 1581 3.0; AK/AS/SC/COSC 1520 3.0 or permission of the course coordinator.

*Degree credit exclusions:* AS/SC/MATH 2280 3.0, AS/SC/AK/MATH 2580 6.0.

**AS/SC/AK/MATH 3010 3.0 Vector Integral Calculus.** Integrability of continuous functions over suitable domains, iterated integrals and Fubini's theorem, counterexamples, change of variables, Jacobian determinants, polar and spherical coordinates, volumes, vector fields,

divergence, curl, line and surface integrals, Green's and Stokes' theorems, differential forms, general Stokes' theorem.

*Prerequisite:* AS/SC/MATH 2010 3.0 or AS/SC/AK/MATH 2310 3.0; or AS/SC/MATH 2015 3.0 and written permission of the Mathematics Undergraduate Director (normally granted only to students proceeding in Honours programs in Mathematics or in the Specialized Honours program in Statistics).

*Prerequisite or corequisite:* AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0.

**AS/SC/AK/MATH 3020 6.0 Algebra I.** Introduction to the basic concepts of abstract algebra, with applications: groups (cyclic, symmetric, Lagrange's theorem, quotients, homomorphism theorems); rings (congruences, quotients, polynomials, integral domains, principal-ideal and unique-factorization domains); fields (field extensions, constructions with ruler and compasses, coding theory).

*Prerequisite:* AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0.

**AS/SC/MATH 3033 3.0 Classical Regression Analysis.** General linear model. Properties and geometry of least-squares estimation. General linear hypothesis, confidence regions and intervals. Multicollinearity. Relationship between ANOVA models and linear models. Residual analysis, outliers, partial and added variable plots.

*Prerequisites:* AS/SC/AK/MATH 2131 3.0 or permission of the course director; AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0.

*Degree credit exclusions:* AS/SC/AK/MATH 3330 3.0, AS/SC/GEOG 3421 3.0, AS/SC/PSYC 3030 6.0.

**AS/SC/AK/MATH 3034 3.0 Applied Categorical Data Analysis.** Regression using categorical explanatory variables, one-way and two-way analysis of variance. Categorical response data, two-way and three-way contingency tables, odds ratios, tests of independence, partial association. Generalized linear models. Logistic regression. Loglinear models for contingency tables.

*Prerequisite:* AS/SC/MATH 3033 3.0 or AS/SC/AK/MATH 3330 3.0.

*Degree credit exclusion:* Not open to any student who has passed or is taking AS/SC/MATH 4130G 3.0.

*Note:* Computer/Internet use may be required to facilitate course work.

**AS/SC/AK/MATH 3050 6.0 Introduction to Geometries.** Analytic geometry over a field with vector and barycentric coordinate methods, affine and projective transformations, inversive geometry, foundations of Euclidean and non-Euclidean geometry, applications throughout to Euclidean geometry.

*Prerequisite:* AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0 or permission of the course coordinator.

**AS/SC/MATH 3100 3.0 Famous Problems in Mathematics.** An attempt to foster an appreciation of the history, the personalities and some of the content of different areas of mathematics, by means of a study of some specific problems which have exercised the minds of mathematicians.

*Prerequisites:* At least 12 credits from 2000-level MATH courses without second digit 5, or permission of the course coordinator.

**AS/SC/AK/MATH 3110 3.0 Introduction to Mathematical Analysis.** Proofs in calculus and analysis. Topics include sets, functions, axioms for  $\mathbb{R}$ , applications of the completeness axiom, countability, sequences and their limits, monotone sequences, limits of functions, continuity.

*Prerequisite:* AS/SC/AK/MATH 1310 3.0 or AS/SC/MATH 1014 3.0.

*Prerequisites or corequisites:* AS/SC/AK/MATH 2310 3.0 or AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 1021 3.0 or AS/SC/MATH 2021 3.0 or AS/SC/AK/MATH 2221 3.0 or AS/SC/MATH 1025 3.0.

*Degree credit exclusion:* AS/SC/MATH 1010 3.0.

**AS/SC/AK/MATH 3131 3.0 Mathematical Statistics I.** Topics include common density functions, probability functions, principle of likelihood, the likelihood function, the method of maximum likelihood, likelihood regions, tests of hypotheses, likelihood ratio tests, goodness of fit tests, conditional tests, and confidence sets with a view towards applications.

*Prerequisite:* AS/SC/AK/MATH 2131 3.0 or permission of the course coordinator.

**AS/SC/AK/MATH 3132 3.0 Mathematical Statistics II.** Important examples and methods of statistical estimation and hypothesis testing are discussed in terms of their mathematical and statistical properties. Topics include sufficiency, Bayesian statistics, decision theory, most powerful tests, likelihood ratio tests.

*Prerequisite:* AS/SC/AK/MATH 3131 3.0.

**AS/SC/AK/MATH 3140 6.0 Number Theory and Theory of Equations.** A study of topics in number theory and theory of equations using relevant methods and concepts from modern algebra, such as Abelian groups, unique factorization domains and field extensions.

*Prerequisite:* AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0 or permission of the course coordinator.

**AS/SC/AK/MATH 3170 6.0 Operations Research I.** A study of linear programming; transportation problems, including network flows, assignment problems and critical path analysis; integer programming; dynamic programming and an introduction to stochastic models. Application to a set of problems representative of the field of operations research.

*Prerequisites:* AS/SC/AK/MATH 1021 3.0 or AS/SC/MATH 1025 3.0 or AS/SC/MATH 2021 3.0 or AS/SC/AK/MATH 2221 3.0; AK/AS/SC/COSC 1520 3.0 or AK/AS/SC/COSC 1540 3.0 or AK/AS/SC/COSC 1020 3.0 or equivalent.

**AS/SC/AK/MATH 3190 3.0 Set Theory and Foundations of Mathematics.** The following topics are covered: paradoxes in naive set theory; functions and relations, transfinite numbers, their ordering and their arithmetic; well-ordered sets and ordinal numbers; Zorn's lemma; an introduction to axiomatic set theory.

*Prerequisite:* six credits from 2000-level MATH courses without second digit 5.

**AS/SC/AK/MATH 3210 3.0 Principles of Mathematical Analysis.** Rigorous presentation, with proofs, of fundamental concepts of analysis: limits, continuity, differentiation, integration, fundamental theorem, power series, uniform convergence.

*Prerequisite:* At least one of the following four courses or course combinations: (1) AS/SC/MATH 2010 3.0, (2) AS/SC/AK/MATH 3110 3.0, (3) AS/SC/AK/MATH 2310 3.0 and AS/SC/MATH 1010 3.0, (4) AS/SC/MATH 2015 3.0 and AS/SC/MATH 1010 3.0.

**AS/SC/MATH 3241 3.0 Numerical Methods I.**

An introductory course in computational linear algebra. Topics include simple error analysis, linear systems of equations, non-linear equations, linear least squares and interpolation.

*Cross-listed to:* AK/AS/SC/COSC 3121 3.0.

*Prerequisites:* One of AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AS/SC/AK/MATH 1310 3.0; one of AS/SC/AK/MATH 1021 3.0, AS/SC/MATH 1025 3.0, AS/SC/MATH 2021 3.0, AS/SC/AK/MATH 2221 3.0; one of AK/AS/SC/COSC 1540 3.0, AK/AS/SC/COSC 2031 3.0.

*Degree credit exclusion:* AK/AS/SC/COSC 3121 3.0.

**AS/SC/MATH 3242 3.0 Numerical Methods II.**

Algorithms and computer methods for solving problems of differentiation, integration, differential equations, and an introduction to systems of non-linear equations.

*Cross-listed to:* AK/AS/SC/COSC 3122 3.0.

*Prerequisites:* AS/SC/AK/MATH 2270 3.0; AS/SC/MATH 3241 3.0 or AK/AS/SC/COSC 3121 3.0.

*Degree credit exclusion:* AK/AS/SC/COSC 3122 3.0.

**AS/SC/AK/MATH 3260 3.0 Introduction to Graph Theory.**

Introductory graph theory with applications. Graphs, digraphs. Eulerian and Hamiltonian graphs. The travelling salesman. Path algorithms; connectivity; trees; planarity; colourings; scheduling; minimal cost networks. Tree searches and sortings, minimal connectors and applications from physical and biological sciences.

*Prerequisite:* At least six credits from 2000-level MATH courses without second digit 5.

**AS/SC/MATH 3271 3.0 Partial Differential Equations.** Partial differential equations of mathematical physics and their solutions in various coordinates, separation of variables in Cartesian coordinates, application of boundary conditions; Fourier series and eigenfunction expansions; generalized curvilinear coordinates; separation of variables in spherical and polar coordinates.

*Prerequisites:* AS/SC/AK/MATH 2270 3.0; AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0 or AS/SC/AK/MATH 2310 3.0; AS/SC/AK/MATH 3010 3.0 is also desirable, though not essential, as prerequisite for students presenting AS/SC/MATH 2010 3.0 or AS/SC/AK/MATH 2310 3.0.

**AS/SC/MATH 3272 3.0 Special Functions.** The special functions of mathematical physics: Bessel functions, Legendre functions, Gamma function, Hermite functions, Laguerre functions, Chebyshev polynomials, hypergeometric and confluent hypergeometric functions; boundary value problems, heat flow, wave motion in Cartesian and polar coordinates; Laplace and Fourier transforms.

*Prerequisite:* AS/SC/MATH 3271 3.0 or permission of the course coordinator.

**AS/SC/MATH 3280 6.0 Actuarial Mathematics.** Deterministic and stochastic models for contingent payments. Topics include survival distributions, life tables, premiums and reserves for life insurance and annuities, multiple life contracts, multiple decrement theory.

*Prerequisite:* AS/SC/MATH 2280 3.0.

*Prerequisite or corequisite:* AS/SC/AK/MATH 2131 3.0.

**AS/SC/AK/MATH 3330 3.0 Regression Analysis.** Simple regression analysis, multiple regression analysis, matrix form of the multiple regression model, estimation, tests (t- and F-tests), multicollinearity and other problems encountered in regression, diagnostics, model building and variable selection, remedies for violations of regression assumptions.

*Prerequisites:* One of AS/SC/AK/MATH 2131 3.0, AS/SC/AK/MATH 2570 3.0, AS/SC/PSYC 2020 6.0, or equivalent; some acquaintance with matrix algebra (such as is provided in AS/SC/AK/MATH 1021 3.0, AS/SC/MATH 1025 3.0, AS/SC/MATH 1505 6.0, AS/SC/AK/MATH 1550 6.0, AS/SC/MATH 2021 3.0, or AS/SC/AK/MATH 2221 3.0).

*Degree credit exclusions:* AS/SC/MATH 3033 3.0, AS/ECON 4210 3.0, AS/SC/GEOG 3421 3.0, AS/SC/PSYC 3030 6.0.

**AS/SC/AK/MATH 3410 3.0 Complex Variables.** Analytic functions, the Cauchy-Riemann equations, complex integrals, the Cauchy integral theorem, maximum modulus theorem. Calculations of residues and applications to definite integrals, two-dimensional potential problems and conformal mappings.

*Prerequisite:* AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0 or AS/SC/AK/MATH 2310 3.0. (AS/SC/AK/MATH 3010 3.0 is also recommended as a prerequisite for students who have taken AS/SC/MATH 2010 3.0.)

**AS/SC/AK/MATH 3430 3.0 Sample Survey Design.** Principal steps in planning and conducting a sample survey. Sampling techniques including simple random sampling, stratified random sampling, cluster sampling and sampling with probabilities proportional to size. Estimation techniques including difference, ratio and regression estimation.

*Prerequisite:* AS/SC/AK/MATH 2131 3.0 or AS/SC/AK/MATH 3330 3.0.

**AS/SC/MATH 3450 3.0 Introduction to Differential Geometry.** Curves and surfaces in 3-space, tangent vectors, normal vectors, curvature, introduction to topology and to manifolds.

*Prerequisites:* AS/SC/AK/MATH 3010 3.0; AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0; or permission of the course coordinator.

*Degree credit exclusion:* AS/SC/AK/MATH 4250 6.0.

**AS/MATH 3500 6.0 Mathematics in the History of Culture.** An introduction to the history of mathematical ideas from antiquity to the present, with emphasis on the role of these ideas in other areas of culture such as philosophy, science and the arts.

*Prerequisite:* six credits in university-level mathematics (other than AS/SC/MATH 1500 3.0, AS/SC/MATH 1510 6.0 or AS/SC/MATH 1515 3.0) is strongly recommended.

**AS/SC/MATH 4000 3.0/4000 6.0 Individual Project.** A project of a pure or applied nature in mathematics or statistics under the supervision of a faculty member. The project allows the student to apply mathematical or statistical knowledge to problems of current interest. A report is required at the conclusion of the project.

*Prerequisites:* Open to all students in Honours programs in the Department of Mathematics and Statistics. Permission of the Program Director is required. Applied Mathematics students can enrol only after they have completed the core program in Applied Mathematics.

**AS/SC/AK/MATH 4010 6.0 Real Analysis.** Survey of the real and complex number systems, and inequalities. Metric space topology. The Riemann-Stieltjes integral. Some topics of advanced calculus, including more advanced theory of series and interchange of limit processes. Lebesgue measure and integration. Fourier series and Fourier integrals.

*Prerequisite:* AS/SC/AK/MATH 3210 3.0 or permission of the course coordinator.

**AS/SC/AK/MATH 4020 6.0 Algebra II.** Continuation of Algebra I, with applications: groups (finitely generated Abelian groups, solvable groups, simplicity of alternating groups, group actions, Sylow's theorems, generators and relations); fields (splitting fields, finite fields, Galois theory, solvability of equations); additional topics (lattices, Boolean algebras, modules).

*Prerequisite:* AS/SC/AK/MATH 3020 6.0 or permission of the course coordinator.

*Degree credit exclusion:* AS/SC/MATH 4241 3.0.

**AS/SC/AK/MATH 4030 3.0 Probability Theory.** Elementary measure theory, convergence of random variables, strong law of large numbers, convergence in distribution, stable laws, conditional expectation, martingales.

*Prerequisite:* AS/SC/AK/MATH 2030 3.0.

**AS/SC/AK/MATH 4080 6.0 Topology.** Topological spaces, continuity, connectedness, compactness, nets, filters, metrization theorems, complete metric spaces, function spaces, fundamental group, covering spaces.

*Prerequisite:* AS/SC/AK/MATH 3210 3.0 or permission of the course coordinator.

**AS/SC/MATH 4100 3.0 Topics in Mathematical Education.** This course consists of a series of presentations, by the students, of mathematical topics chosen in consultation with the instructor. Suitability of the material for presentation in high schools is discussed.

*Prerequisite:* Permission of the course coordinator.

**AS/SC/MATH 4110 3.0 Topics in Analysis.** Possible topics include special functions, integral transforms, Fourier series, divergent series, asymptotic expansions, approximation theory, ordinary differential equations, partial differential equations, calculus of variations, calculus on manifolds, introduction to functional analysis, difference equations.

*Prerequisite:* Permission of the course coordinator.

**AS/SC/MATH 4120 3.0 Topics in Algebra.** One or two topics which may be chosen from the following: category theory, commutative algebra, infinite Abelian groups, non-associative algebras, advanced linear algebra, presentation theory, representations of finite groups, universal algebra.

*Prerequisite:* Permission of the course coordinator.

**AS/SC/MATH 4130 3.0 Topics in Probability and Statistics.** One or two topics which may be chosen from the following: statistical decision theory, statistical inference, sequential analysis, information theory, large sample theory, design of experiments, stochastic processes, time series.

*Prerequisite:* Permission of the course coordinator.

**AS/SC/MATH 4140 3.0 Topics in Number Theory.** Topics chosen from quadratic diophantine equations and infinite continued fractions, elements of algebraic number theory, p-adic numbers, other topics selected according to student interest.

*Prerequisite:* Permission of the course coordinator.



**AS/SC/MATH 4141 3.0 Advanced Numerical Methods.** Newton-Raphson, quasi Newton methods; optimization problems: steepest descents, conjugate gradient methods; approximation theory: least squares, singular value decomposition, orthogonal polynomials, Chebyshev and Fourier approximation, Padé approximation; matrix eigenvalues: power method, householder, QL and QR algorithms.

*Prerequisite:* AS/SC/MATH 3242 3.0 or AK/AS/SC/COSC 3122 3.0.

**AS/SC/MATH 4142 3.0 Numerical Solutions to Partial Differential Equations.** Review of partial differential equations, elements of variational calculus; finite difference methods for elliptic problems, error analysis, boundary conditions, non-Cartesian variables, PDE-eigenvalue problems; hyperbolic and parabolic problems, explicit and implicit methods, stability analysis; Rayleigh-Ritz and Galerkin method for ODEs, finite element methods.

*Prerequisites:* AS/SC/AK/MATH 2270 3.0; AS/SC/MATH 3242 3.0 or AK/AS/SC/COSC 3122 3.0.

**AS/SC/AK/MATH 4150 3.0 Topics in Geometry.** One or two topics which may be chosen from the following: projective geometry, algebraic geometry, geometrical algebra, finite geometries, differential geometry, Riemannian geometry, discrete applied geometry.

*Prerequisites:* AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0; six credits from 3000-level MATH courses without second digit 5; or permission of the course coordinator.

**AS/SC/MATH 4160 3.0 Combinatorial Mathematics.** Topics from algebra of sets, permutations, combinations, occupancy problems, partitions of integers, generating functions, combinatorial identities, recurrence relations, inclusion-exclusion principle, Polya's theory of counting, permanents, systems of distinct representatives, Latin rectangles, block designs, finite projective planes, Steiner triple systems.

*Prerequisites:* AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0; six credits from 3000-level MATH courses without second digit 5; or permission of the course coordinator.

**AS/SC/MATH 4170 6.0 Operations Research II.** Selected topics from game theory, decision theory, simulation, reliability theory, queuing theory, non-linear programming, classification, pattern-recognition and prediction. Each chapter contains an optimization problem and methods and algorithms for solving it. The course is rich in examples.

*Prerequisites:* AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0 or AS/SC/AK/MATH 2310 3.0; AS/SC/AK/MATH 2030 3.0; AS/SC/AK/MATH 3170 6.0; or permission of the course coordinator.

*Degree credit exclusion:* AS/MATH 4570 6.0.

**AS/SC/MATH 4200 3.0/4200 6.0 Special Topics.** The department may offer courses or seminars on particular topics not ordinarily available. Some special topics courses may not be eligible for Science (SC) credit. Two terms. Six credits. One term. Three credits.

*Prerequisite:* Permission of the course coordinator.

**AS/SC/MATH 4230 3.0 Non-Parametric Methods in Statistics.** Order statistics; general rank statistics; one-sample, two-sample and k-sample problems; Kolmogorov-Smirnov statistics; tests of independence and relative efficiencies.

*Prerequisite:* AS/SC/AK/MATH 3131 3.0; AS/SC/AK/MATH 3132 3.0 is recommended but not required.

**AS/SC/MATH 4240 3.0 Independent Studies in Applied Mathematics.** Independent studies under the direction of a faculty supervisor. Areas: applied and numerical analysis, discrete applied mathematics, operations research, mathematical physics, mathematical biology, mathematical modelling. The area is restricted by the availability of a supervisor.

*Prerequisites:* Permission of the Applied Mathematics Program Director; restricted to students who have completed the Applied Mathematics program core.

*Note:* Faculty of Arts students should see the Faculty of Arts section of this Calendar for regulations governing "Independent Reading Courses".

**AS/SC/MATH 4241 3.0 Applied Group Theory.** Introduction to group theory and its applications in the physical sciences. Finite groups. Compact Lie groups. Representation theory, tensor representations of classical Lie groups, classification of semi-simple Lie groups.

*Prerequisites:* AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0; AS/SC/AK/MATH 2270 3.0.

*Degree credit exclusion:* AS/SC/AK/MATH 4020 6.0.

**AS/SC/AK/MATH 4250 6.0 Differential Geometry.** Curves and surfaces in 3-space, tangent vectors, normal vectors, curvature, introduction to topology, manifolds, tangent spaces, multilinear algebra and tensors.

*Prerequisites:* AS/SC/AK/MATH 3010 3.0; AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0; or permission of the course coordinator.

*Degree credit exclusion:* AS/SC/MATH 3450 3.0.

**AS/SC/MATH 4270 3.0 Integral Transforms and Equations.** This course studies the Laplace, Fourier, Hankel and Mellin transforms; the solution of integral equations; and the treatment of asymptotic expansions. The applications are to problems in circuit theory, heat flow, elasticity, transport theory and scattering theory.

*Prerequisites:* AS/SC/AK/MATH 2270 3.0; AS/SC/AK/MATH 3410 3.0.

*Prerequisite or corequisite:* AS/SC/MATH 3271 3.0.

**AS/SC/AK/MATH 4271 3.0 Dynamical Systems.** Iterations of maps and differential equations; phase portraits, flows; fixed points, periodic solutions and homoclinic orbits; stability, attraction, repulsion; Poincaré maps, transition to chaos. Applications: logistic maps, interacting populations, reaction kinetics, forced Van der Pol, damped Duffing and Lorenz equations.

*Prerequisites:* AS/SC/AK/MATH 2270 3.0; AS/SC/AK/MATH 1021 3.0 or AS/SC/MATH 2021 3.0 or AS/SC/AK/MATH 2221 3.0 or AS/SC/MATH 1025 3.0.

*Degree credit exclusion:* AS/SC/AK/MATH 3270 3.0.

**AS/SC/MATH 4280 3.0 Risk Theory.** Frequency and severity models in insurance, compound distributions, compound Poisson processes, ruin theory, non-proportional reinsurance, related topics in loss models and stochastic processes.

*Prerequisite:* AS/SC/AK/MATH 2131 3.0.

**AS/SC/AK/MATH 4290 3.0 Mathematical Logic.** Predicate logic, rules of inference, elimination of quantifiers, Tarski semantics, Gödel's completeness, compactness and incompleteness theorems. Untrapowers. Non-standard analysis.

*Prerequisite:* AS/SC/AK/MATH 3020 6.0 or AS/SC/AK/MATH 3190 3.0 or AS/SC/AK/MATH 3210 3.0 or permission of the instructor; AS/SC/AK/MATH 1090 3.0 or AS/SC/AK/MATH 1190 3.0 is recommended.

**AS/SC/MATH 4300 3.0/4300 6.0 Directed Readings.** A student may arrange to do independent study with a member of the Mathematics and Statistics Department. Such an arrangement must have prior approval of the department Chair. Two terms. Six credits. One term. Three credits.

*Note:* Faculty of Arts students should see the Faculty of Arts section of this Calendar for regulations governing "Independent Reading Courses". Some Directed Readings topics may not be eligible for Science (SC) credit.

**AS/SC/MATH 4400 6.0 The History of Mathematics.** Selected topics in the history of mathematics, discussed in full technical detail but with stress on the underlying ideas, their evolution and their context.

*Prerequisites:* 36 credits from MATH courses without second digit 5, including at least 12 credits at or above the 3000 level. (12 of the 36 credits may be taken as corequisites.)

**AS/SC/AK/MATH 4430 3.0 Stochastic Processes.** Basic Markov processes, including Markov chains, Poisson processes, birth-and-death processes, Brownian motion.

*Prerequisite:* AS/SC/AK/MATH 2030 3.0.

*Corequisite:* A MATH course at the 3000 level or higher, without second digit 5.



**AS/SC/AK/MATH 4431 3.0 Probability Models.** This course introduces the theory and applications of several kinds of probabilistic models, including renewal theory, branching processes and martingales. Additional topics may include stationary processes, large deviations, or models from the sciences.

*Prerequisite:* AS/SC/AK/MATH 2030 3.0.

*Corequisite:* A MATH course at the 3000 level or higher, without second digit 5.

**AS/SC/MATH 4470 3.0 Gas and Fluid Dynamics.** Fundamental laws; conservation of mass, momentum and energy; vortex motion; incompressible, compressible and viscous flows; turbulent flow; surface waves.

*Cross-listed to:* SC/PHYS 4120 3.0.

*Prerequisites:* AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0; SC/EATS 2470 4.0 or SC/EATS 2470 3.0 or SC/PHYS 2010 3.0.

*Degree credit exclusion:* SC/PHYS 4120 3.0.

**AS/MATH 4570 6.0 Applied Optimization.** Topics chosen from decision theory, game theory, inventory control, Markov chains, dynamic programming, queuing theory, reliability theory, simulation, non-linear programming.

*Prerequisites:* AS/SC/AK/MATH 3170 6.0; AS/SC/AK/MATH 3330 3.0; AS/SC/AK/MATH 3230 3.0 or AS/SC/AK/MATH 3430 3.0.

*Degree credit exclusion:* AS/SC/MATH 4170 6.0.

**AS/SC/MATH 4630 3.0 Applied Multivariate Statistical Analysis.** The course covers the basic theory of the multivariate normal distribution and its application to multivariate inference about a single mean, comparison of several means and multivariate linear regression. As time and interest permit, further related topics may also be covered.

*Prerequisites:* AS/SC/AK/MATH 3131 3.0; AS/SC/AK/MATH 3034 3.0 or AS/SC/AK/MATH 3230 3.0; AS/SC/AK/MATH 2022 3.0 or AS/SC/AK/MATH 2222 3.0.

**AS/SC/MATH 4730 3.0 Experimental Design.**

An examination of the statistical issues involved in ensuring that an experiment yields relevant information. Topics include randomized block, factorial, fractional factorial, nested, Latin square and related designs. Further topics as time permits. The emphasis is on applications.

*Prerequisite:* AS/SC/AK/MATH 3034 3.0 or permission of the course coordinator.

**AS/SC/MATH 4830 3.0 Time Series and Spectral Analysis.** Treatment of discrete sampled data by linear optimum Wiener filtering, minimum error energy deconvolution, autocorrelation and spectral density estimation, discrete Fourier transforms and frequency domain filtering and the Fast Fourier Transform algorithm.

*Cross-listed to:* SC/EATS 4020 3.0, SC/PHYS 4060 3.0.

*Prerequisites:* AK/AS/SC/COSC 1540 3.0 or equivalent FORTRAN programming experience; AS/SC/AK/MATH 2270 3.0; AS/SC/MATH 2015 3.0 or AS/SC/AK/MATH 3010 3.0.

*Degree credit exclusions:* AK/AS/SC/COSC 4242 3.0, AK/AS/SC/COSC 4451 3.0, SC/EATS 4020 3.0, AS/SC/MATH 4130B 3.0, AS/SC/MATH 4930C 3.0, SC/PHYS 4060 3.0.

**AS/SC/MATH 4930 3.0 Topics in Applied Statistics.** Each time this course is given, it is on a topic chosen from the following:

- A: statistical quality control
- B: simulation and the Monte Carlo method
- C: forecasting and applied time series
- D: applied decision theory.

*Prerequisites:* AS/SC/AK/MATH 3330 3.0; AS/SC/AK/MATH 3034 3.0 or AS/SC/AK/MATH 3230 3.0 or AS/SC/AK/MATH 3430 3.0.

## McLaughlin College – Arts

**Academic Program Office:**

237 McLaughlin, 416-736-5128

[www.yorku.ca/mclaughlin](http://www.yorku.ca/mclaughlin)

**College Master:**

David Shugarman

**Academic Adviser:**

Terry Conlin

Listed below are the 1000-level and 2000-level nine-credit Foundations courses which are part of the Faculty of Arts General Education requirement. These courses introduce students to interdisciplinary study and emphasize critical thinking, reading and writing skills at the university level, and reflect the academic mandate of the college.

Students enrolling in McLaughlin College Foundation courses, in either the Division of Humanities or the Division of Social Sciences, will be members of McLaughlin College with access to academic advising, orientation programs, social and cocurricular events.

### 1000-Level Courses

**AS/HUMA 1950 9.0 Concepts of the “Male” and “Female” in the West.** An examination of the origins of, and the interrelationships among, gender, male and female concepts and roles through myth, literature, art, and artifacts from various Western cultures, past and present.

*Degree credit exclusion:* AS/HUMA 1950 6.0.

**AS/HUMA 2960 9.0 The Body in Western Culture.** From an interdisciplinary perspective this course explores the attitudes of Western culture to the body and to entities such as soul, spirit and mind which have been contrasted with it.

**AS/SOSC 1130 9.0 International Migration.** The course examines why people leave their native lands and what becomes of them in the countries to which they immigrate, with particular reference to the impact of the immigrant on the host country, using Canadian examples.

*Degree credit exclusions:* AS/SOSC 1130 6.0, AS/SOSC 1139 9.0.

**AS/SOSC 1140 9.0 Self, Culture and Society: The Problem of Personal Identity.**

The course concerns the development of concepts of culture by which individuals seek to understand themselves and the world about them, using materials from anthropology, sociology and philosophy, and with the aim of developing a critique of our own situation.

*Degree credit exclusion:* AS/SOSC 1140 6.0.

**AS/SOSC 1188 9.0 Women’s Roles.** The intersection of gender and culture is considered, with emphasis on women’s issues. We explore the role of women in Canada and elsewhere, assessing how nation and culture shape gender discourses, and we examine aboriginal issues at home and abroad.

**AS/SOSC 1200 9.0 Canadian Problems.**

The conceptual framework that has been developed out of this experience is used to examine a number of contemporary problems, selected each year on the basis of their topicality and relevance to a comprehensive understanding of current Canadian public policy.

*Degree credit exclusion:* AS/SOSC 1200 6.0.

**AS/SOSC 1350 9.0 Women and the Law.**

This course explores the role of gender within the context of the legal system. Current issues that highlight the relationship between gender and law are examined by analyzing both legislation and case law. Topics include: divorce, rape and equal pay.

*Degree credit exclusion:* AS/SOSC 1350 6.0.

**AS/SOSC 1520 9.0 Markets and Democracy: The Development of Industrial Society.**

The development of industrial capitalism has entailed profound changes in ways of living. The course will consider the spread of the market economy, the industrialization of production and the associated transformation of social and political institutions and ideas.

*Degree credit exclusions:* AS/SOSC 1520 6.0, AS/SOSC 2510 6.0.

**AS/SOSC 1535 9.0 Societies and Economic Systems.**

This course examines the 20th century’s two dominant economic systems: Western capitalism and eastern European socialism. It provides a comprehensive understanding of the theory and practice of both systems, and discusses movement between them.

**AS/SOSC 2150 9.0 Families in Crisis: Issues of Health Environments and Poverty.**

This course examines the crisis of the contemporary family. We use the family therapy literature to examine the crisis within the family system; and we also use the critical perspectives of Marxism, psychoanalysis and feminism to understand the position of the family in the surrounding social world.

*Degree credit exclusions:* AS/SOSC 2150 6.0, AS/SOCI 3660 6.0, AS/SOSC 3150 6.0.

**AS/SOSC 2200 9.0 Sovereignty and Democracy: Canada in the New Global Economy.** An introduction to the program in Canadian Studies. A critical assessment of the body of knowledge on Canada as it has developed in selected disciplines. Works of various scholars are examined to illustrate approaches used.

*Degree credit exclusion: AS/SOSC 2200 6.0.*

*Note: This course is required of students in the Canadian Studies program, but also is open to others.*

## Music – Fine Arts

### Department Office:

225 Winters, 416-736-5186

### Chair of the Department:

M. Coghlan

### Professors:

C. Petrowska-Quilico, T. Sankaran

### Professors Emeriti:

A. Clarkson, J. Tenney

### Associate Professors:

R. Bowman, M. Coghlan, B. Diamond, D. Lidov, D. Mott, C. Sokol, P. Wait, P. Werren, R. Witmer

### Associate Professor Emeritus:

R.S. Beckwith

### Assistant Professors:

D. de Val, J. Gittins, S. Otto, R. Simms

## Programs of Study

The mandate of our students and faculty is to make and share music and to acquire, develop and disseminate musical knowledge. We understand musical study as interacting with nearly all studies pursued in the University - those of the humanities and the other fine arts, the social and natural sciences and the professions. From its inception, the Music Department has emphasized the study and performance of contemporary music in all its diversity, while bringing to bear a wide range of historical and social perspectives on the music of other times and places.

Students who major in music may pursue the BA, the BA Honours or BFA Honours degree. These degree options address both academic and practical concerns, combining the knowledge and skills needed for professional work in music with experience that will stimulate lifelong musical and personal growth. Undergraduate studies include courses in performance, composition, music history and ethnology, theory and pedagogy, with the emphasis largely depending on the student's own interests and abilities. Many of these courses are also available to non-majors, with opportunities for participation in various performances and musical events on and off campus organized by members of the department.

Both the BA Honours and BFA Honours degree programs comprise a total of 120 credits and may be completed in four years of full-time study or over a longer period of part-time study. The major program in Music may be combined with a second major in the Faculty of

Arts, or with a minor in the Faculty of Arts, Environmental Studies, Pure and Applied Science or Fine Arts. A five-year program leading to two degrees (the BA Honours or BFA Honours in Music and the Bachelor of Education degree) is also available. A minor in Music may be pursued by qualified honours degree students in the Faculties of Arts, Environmental Studies and Fine Arts. Students may apply to the BA (90-credit) degree in Music at the end of their first year of study. Completion of this degree forms a strong basis for further studies in fields such as music therapy, arts administration and management, music journalism, music marketing, cultural tourism, community arts and cultural management. For students interested in teaching at the primary, junior and intermediate levels, a BA and a BEd can be completed in four years, rather than five, as currently with the BA or BFA Honours.

Admission to the department is by audition. Further information on audition evaluations, admissions, degree requirements and Faculty of Fine Arts regulations may be found in the Faculty of Fine Arts section of this Calendar.

In the area of performance, a qualified student may select one or more of a number of courses including chamber ensembles in Western art music (piano, percussion, winds, strings, voice, guitar), jazz, world music ensembles and contemporary music both notated and improvised. Each course entails ensemble workshops, study of the history and literature of the instruments, and attention to individual problems of performance. Performance experience in large ensembles is provided by the Choir, Jazz Orchestra, Jazz Choir, Wind Symphony and Contemporary Improvisation Ensemble.

In the area of composition, instruction is given in the skills of writing in score, arranging and orchestration. In addition, fully equipped digital and MIDI studios provide facilities for learning all phases of the composition and production of music.

In the area of musical research (music history, area studies and ethnomusicology), the aim is to integrate musicianship with the history, theory and anthropology of music. Intensive study may be pursued in the musics of Asia and the Americas as well as of Europe, past and present.

All Music majors complete a sequence of foundational courses which equips them with essential concepts and practical skills in ear-training, sight-singing, rhythm, theory and awareness of the social, cultural and historical contexts of music. These requirements include FA/MUSI 1000 6.0, FA/MUSI 1200 9.0, FA/MUSI 2200 6.0, FA/MUSI 2201 3.0 and FA/MUSI 2202 3.0. A student may be exempted from one or more of those courses by passing proficiency exams; otherwise, students who do not maintain enrolment in the foundation courses scheduled for their first and second years may not be enrolled in performance and/or composition courses. These foundation courses are prerequisite for all the department's upper-level offerings for majors, and both full and part-time students must

complete them within their first 60 credits. All Honours Music majors must complete 30 upper level Music credits (at or above the 3000 level), including at least 18 credits in studies courses for the BA Honours degree, and at least 12 credits in studies courses and at least 12 credits in studio courses for the BFA Honours degree. (See the lists of courses below.)

In addition to courses in Music, the Bachelor's, BA Honours and BFA Honours degrees require 18 general education credits, and 12 credits from other departments in Fine Arts.

### For Degree Credit, Music Courses are Classified as Follows:

#### Non-Major Courses (not open to Music majors or minors):

FA/MUSI 1511 3.0, 1512 3.0, 1520 6.0, 1530 6.0, 2540 6.0 (In addition, many of the courses listed below are available to non-majors.)

#### Foundation Courses:

FA/MUSI 1000 6.0, 1200 9.0, 2200 6.0, 2201 3.0, 2202 3.0. (All other 1000- and 2000-level Music courses are counted as electives.)

#### Upper-Level Studies Courses:

FA/MUSI 3059 6.0, 3081 3.0, 3220 3.0, 3300 6.0, 3310 6.0, 3320 6.0, 3340 6.0, 3350 6.0, 3360 6.0, 3370 3.0, 3380 3.0, 3390 3.0/3390 6.0, 3460 3.0, 3470 3.0, 4059 6.0, 4081 3.0, 4200 3.0, 4300 3.0, 4320 3.0, 4370 3.0, 4380 3.0, 4381 3.0, 4390 3.0/4390 6.0, 4399 3.0, 4590 3.0/4590 6.0, 4600 6.0.

#### Upper-Level Studio Courses:

FA/MUSI 3000 6.0, 3010 6.0, 3020 3.0, 3022 3.0, 3024 3.0, 3025 3.0, 3026 3.0, 3028 3.0, 3029 6.0, 3031 6.0, 3032 6.0, 3040 6.0, 3041 6.0, 3042 3.0, 3043. 3.0, 3044 3.0, 3045 3.0, 3046 3.0, 3047 3.0, 3048 3.0, 3049 3.0, 3051 6.0, 3052 3.0, 3053 3.0, 3054 3.0, 3059 6.0, 3070 3.0/3070 6.0, 3071 3.0, 3080 3.0/3080 6.0, 3082 3.0, 3090 3.0, 3091 3.0, 3092 3.0, 3093 3.0, 3110 6.0, 3120 3.0, 3131 3.0, 3132 3.0, 3140 6.0, 3201 3.0, 3202 3.0, 3210 6.0, 3240 6.0, 3450 3.0, 3460 3.0, 3900 3.0/3900 6.0, 4020 3.0, 4024 3.0, 4025 3.0, 4026 3.0, 4028 3.0, 4029 6.0, 4031 6.0, 4032 6.0, 4040 6.0, 4041 6.0, 4042 3.0, 4043. 3.0, 4044 3.0, 4045 3.0, 4046 3.0, 4047 3.0, 4048 3.0, 4049 3.0, 4051 6.0, 4052 3.0, 4053 3.0, 4054 3.0, 4059 6.0, 4070 3.0/4070 6.0, 4080 3.0/4080 6.0, 4082 3.0, 4090 3.0, 4091 3.0, 4092 3.0, 4093 3.0, 4110 6.0, 4140 6.0, 4150 6.0, 4200 3.0, 4390 3.0/4390 6.0, 4590 3.0/4590 6.0, 4900 3.0.

*Note: Some courses involve additional maintenance fees. Consult the department's supplementary calendar for details.*

## Courses in Music

*Note: For new courses, the list of courses offered in a given term and detailed course descriptions, consult the supplementary calendar available from the department office.*

### FA/MUSI 1000 6.0 Workshop in Musicianship

**I.** An intensive course designed to develop musical sensitivity, imagination and practical skills, through a variety of individual exercises in singing, playing, composing and listening. Four hours plus tutorial.

Limited to Music majors and minors and required of all new majors. Available to students in Fine Arts Cultural Studies by entrance examination.

**FA/MUSI 1020 3.0 Classical Performance: Individual Instruction.** This course provides instruction in instrumental or vocal performance. Students enrol in the course corresponding to their instrument.

- A. Flute
- B. Oboe
- C. Clarinet
- D. Bassoon
- E. Saxophone
- F. French Horn
- G. Trumpet
- H. Trombone
- I. Tuba
- J. Percussion
- L. Guitar
- M. Voice
- N. Violin
- O. Viola
- P. Cello
- Q. Double Bass

*Prerequisite:* Permission of the course director, by audition.

*Corequisites:* FA/MUSI 1022 3.0, FA/MUSI 1024 3.0 or FA/MUSI 1025 3.0 or FA/MUSI 1026 3.0, FA/MUSI 1052 3.0 or FA/MUSI 1053 3.0.

**FA/MUSI 1022 3.0 York University Women's Chorus.** This course is open to all qualified York University students. The York University Women's Chorus performs repertoire written especially for soprano and also voice ranges, and presents several concerts annually. Open to non-majors.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 1024 3.0 York University Concert Choir.** This course is open to all qualified York University students and offers performance training in the environment of a large choir.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 1025 3.0 York University Wind Symphony.** This course is open to all qualified York University students and offers performance training in the environment of a large ensemble.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 1026 3.0 Orchestra.** This course is open to all qualified York University students and offers performance training in the environment of a large ensemble.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 1028 3.0 York Chamber Music Ensembles.** This course provides training and experience in the performance of chamber music. Students enrol in one of the following ensembles:

- B. York Brass Ensemble

G. York Guitar Ensemble

K. York Chamber Ensembles (Keyboard)

P. York Percussion Ensemble

S. York Chamber Strings

V. York Vocal Ensembles

W. York Woodwind Ensemble

*Prerequisite:* Permission of the course director, by audition.

*Corequisite:* FA/MUSI 1020 3.0.

**FA/MUSI 1029 3.0 Vocal Diction I.** Examines diction as it relates to performance within the tradition of classical voice. Students will receive practical instruction in classical vocal pronunciation, diction, articulation and correct vowel formation with an aim to developing the linguistic fluency and foreign language competency necessary for the vocal art in the Western Classical tradition.

*Corequisite:* Enrolment in FA/MUSI 1020M 3.0 Voice or permission of the instructor.

**FA/MUSI 1031 6.0 Piano Improvisation and Contemporary Styles.** Designed for pianists of all backgrounds interested in exploring a variety of improvisational practices and 20th-century techniques and styles. Students learn to develop a compositional orientation to improvisation which allows the free exploration and integration of materials and processes from all periods and cultures.

*Prerequisite:* Permission of the course director, by audition. Open to non-majors.

*Prerequisites or corequisites:* FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.

**FA/MUSI 1032 6.0 Contemporary Musicianship and Improvisation.** Designed to integrate musicianship training with work in composition and improvisation. Development of the skills, strategies and sensibilities required to achieve fluency in spontaneous solo and ensemble music making and the development and refining of one's own musical voice are among the main course objectives. Admission is by audition in September.

*Prerequisite:* Permission of the course director, by audition. Open to non-majors.

*Prerequisites or corequisites:* FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.

**FA/MUSI 1042 3.0 Gamelan Orchestra.** Group instruction in the technique and performance of Indonesian Gamelan repertoire. Rhythmic and melodic techniques are developed while performing on various gongs, metalophones, flutes and drums of the Gamelan Orchestra. Repertoire is memorized and ensemble performance practice is emphasized through public performance.

*Note:* Open to majors and non-majors.

**FA/MUSI 1043 3.0 West African Drum Ensemble.** Practical instruction in the performance practice and repertoires of various West African cultures including Ewe,

Dagamba, Mandinka and other Mande people. The songs and basic dance movements integral to these traditions will also be studied.

*Note:* Open to majors and non-majors.

**FA/MUSI 1044 3.0 North American String Band.** Practical instruction in several vernacular fiddle-based musical traditions of North America. Some knowledge of fiddle, guitar, piano, harmonica or tin whistle is an asset.

*Prerequisite:* Permission of the course director. No prior experience is necessary.

*Note:* Open to majors and non-majors.

**FA/MUSI 1045 3.0 Klezmer Folk Ensemble.** Practical performance instruction in the Klezmer musical tradition. Some knowledge of fiddle, guitar, piano or clarinet required. The course develops facility and repertoire in the improvisational styles associated with the Klezmer (Jewish Wedding Band) tradition of central Europe and the Middle East.

*Prerequisite:* Permission of the course director. No prior experience is necessary.

*Note:* Open to majors and non-majors.

**FA/MUSI 1046 3.0 African-American Musics.** Practical performance instruction in the African-American traditions of ragtime, blues, barrelhouse, boogie-woogie and stride piano styles. Students develop manual independence, rhythmic security, improvisation skills and stylistic awareness using repertoire chosen from the tradition. Both aural sources and written scores are consulted and used to recreate the music.

*Prerequisite:* Permission of the course director.

*Note:* Open to majors and non-majors with appropriate skill level in piano playing.

**FA/MUSI 1047 3.0 Chinese Classical Ensemble.** Practical and repertoire studies in traditional Chinese orchestral techniques (chin, erhu etc.).

*Note:* Open to majors and non-majors.

**FA/MUSI 1048 3.0 Japanese Music.** Practical and repertoire studies in traditional instrumental techniques (shakuhachi, koto etc.) Students concentrate on issues of performance such as tone colour, rhythmic accuracy and nuance, and ensemble performance.

*Note:* Open to majors and non-majors.

**FA/MUSI 1049 3.0 Cuban Music.** A performance oriented course dealing primarily with Cuban popular music styles. An in depth examination of various Afro-cuban traditional musics, which have had important influence on the popular styles, will also be presented.

*Note:* Open to majors and non-majors.

**FA/MUSI 1050 6.0 Introduction to Jazz Performance.** Improvisation and ensemble playing in the jazz idiom, intended for students with instrumental proficiency and musical literacy, and some experience in jazz performance.

*Prerequisite: Permission of the course director, by audition. All aspirants can receive further information on auditions from the department office. Open to non-majors.*

*Prerequisites or corequisites: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.*

**FA/MUSI 1051 6.0 Jazz Workshop I.** A systematic approach to improvising and ensemble playing in the jazz idiom. The course is designed primarily for students with instrumental proficiency and basic experience in small group jazz performance and/or jazz theory. Hours vary.

*Prerequisite: Permission of the course director, by audition. Open to non-majors.*

*Prerequisites or corequisites: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.*

**FA/MUSI 1052 3.0 Jazz Orchestra I.** The York Jazz Orchestra performs traditional and contemporary jazz for large ensembles, including student compositions as well as music by noted jazz composers.

*Prerequisite: Permission of the course director, by audition. Open to non-majors.*

*Note: The Jazz Orchestra meets from September to April.*

**FA/MUSI 1053 3.0 Jazz Choir I.** This course provides instruction in jazz choral techniques and emphasizes the development of vocal performance skills within the Jazz tradition.

*Prerequisite: Permission of the course director, by audition.*

*Note: The Jazz Choir meets from September to April.*

**FA/MUSI 1054A 3.0 Jazz Piano Masterclass.** A performance oriented course dealing primarily with Cuban popular music styles. An in depth examination of various Afro-cuban traditional musics, which have had important influence on the popular styles, will also be presented.

*Note: Open to majors and non-majors.*

**FA/MUSI 1054B 3.0 Jazz Bass Masterclass.** This course focuses on performance techniques within the tradition of jazz bass as manifested in various historical and contemporary styles. Practical instruction in jazz bass playing includes an emphasis on developing proper technique, tone, intonation, harmonic conception, stylistic integrity, melodic fluency and repertoire competency.

*Prerequisite: Permission of the instructor for 1054B, appropriate lower level or permission of the instructor required for upper level registration.*

**FA/MUSI 1054C 3.0 Jazz Percussion Masterclass.** This course focuses on performance dealing primarily with the tradition of jazz percussion performance styles. Practical instruction in jazz drum "set" or "kit" includes an emphasis on developing proper technique, stylistic fluency and repertoire competency.

*Prerequisite: Permission of the instructor for 1054C, appropriate lower level or permission of the instructor required for upper level registration.*

**FA/MUSI 1054D 3.0 Jazz Guitar Masterclass.** This course focuses on performance techniques within the tradition of jazz guitar as manifested in various historical and contemporary styles. Practical instruction in jazz guitar playing includes an emphasis on developing melodic technique, harmonic structure, stylistic integrity, comping fluency and repertoire competency.

*Prerequisite: Permission of the instructor for 1054D, appropriate lower level or permission of the instructor required for upper level registration.*

**FA/MUSI 1054E 3.0 Jazz Woodwind Masterclass.** This course focuses on performance techniques within the tradition of jazz woodwind (saxophone, clarinet, flute) as manifested in various historical and contemporary styles. Practical instruction in jazz woodwind playing includes an emphasis on developing tone, technique, harmonic sensitivity, stylistic integrity, melodic fluency and repertoire competency.

*Prerequisite: Permission of the instructor for 1054E, appropriate lower level or permission of the instructor required for upper level registration.*

**FA/MUSI 1054F 3.0 Jazz Brass Masterclass.** This course focuses on performance techniques within the tradition of jazz brass (trumpet, trombone, tuba) as manifested in various historical and contemporary styles. Practical instruction in jazz brass playing includes an emphasis on developing tone, technique, harmonic sensitivity, stylistic integrity, melodic fluency and repertoire competency.

*Prerequisite: Permission of the instructor for 1054F, appropriate lower level or permission of the instructor required for upper level registration.*

**FA/MUSI 1054G 3.0 Jazz Vocal Masterclass.** This course focuses on performance dealing primarily with the tradition of solo jazz singing. Practical instruction in jazz vocal performance includes an emphasis on developing stylistic fluency and repertoire competency.

*Prerequisite: Permission of the instructor for 1054G, appropriate lower level or permission of the instructor required for upper level registration.*

**FA/MUSI 1059 3.0 Jazz Theory and Musicianship I.** A jazz theory course for students in the jazz performance stream. All students enrolled in FA/MUSI 1051 6.0 must be concurrently enrolled in FA/MUSI 1059 3.0. However, qualified students may elect to take FA/MUSI 1059 3.0 without concurrent enrolment in FA/MUSI 1051 6.0.

*Corequisite: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.*

**FA/MUSI 1080 3.0/1080 6.0 Classical Piano Performance.** Instruction and recital preparation in classical piano through individual lessons and master classes.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 1082 3.0 Piano Accompanying.** This course develops the pianist's ability to function as a sensitive and musical accompanist.

*Prerequisite: Permission of the course director.*

**FA/MUSI 1090 3.0 Middle Eastern Ensemble.** Practical instruction in selected Middle Eastern classical and folk repertoires drawn from Arab, Persian and Turkish cultures. In addition to voice and percussion (frame drum, darabouka) instrumentation will include 'oud, setar (lute), violin and ney (reed flute).

*Prerequisite: Permission of the course director.*

**FA/MUSI 1091 3.0 World Music Chorus.** A practical performance course which surveys selected polyphonic traditions from around the world. This course seeks to expand conceptions regarding vocal technique and production while exploring various compositional possibilities.

*Prerequisite: Permission of the course director.*

**FA/MUSI 1092 3.0 Early Music Ensemble.** Practical instruction in selected repertoires drawn from Medieval and Renaissance sources. Ensembles will utilize voice, wind (recorders and gemhorns), string and percussion instruments.

*Prerequisite: Permission of the instructor.*

**FA/MUSI 1093 3.0 Balkan Music Ensemble.** Practical instruction in selected repertoires drawn from the rich and varied Balkan region sources. Ensembles will utilize voice, string, wind and percussion instruments.

*Prerequisite: Permission of the instructor.*

**FA/MUSI 1110 3.0 Composition Studio I.** An introduction to musical composition for acoustic instruments and voice, emphasizing clarity as attained by distinct decisions about all compositional variables and adequate notation of these. Students are expected to expand their idiomatic ranges.

*Prerequisites or corequisites: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0. Open to non-majors/minors by permission of the course director.*

*Degree credit exclusion: the former FA/MUSI 2110 3.0.*

**FA/MUSI 1140 6.0 Digital and Electronic Media I.** This course deals with the historical, technical and aesthetic aspects of electronic music systems in theory, composition and performance. Work includes the theory and analysis of acoustics, sound recording, classical tape techniques, synthesizers, microphones, mixers and various digital and analogue devices and methods.

*Prerequisites or corequisites: For Music majors, FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0. Open to non-majors/minors by permission of the course director.*

**FA/MUSI 1200 9.0 Musics and Cultures I.** Students are exposed to concepts underlying music as a whole, with emphasis upon the cultivation of listening skills and upon the aural recognition of particular kinds of musical materials. Topics include rhythm and meter, acoustics, melody, harmony, texture, musical form and basic techniques of analysis. Six hours. Open only to Music majors and minors, and required of all first year full time Music majors. Available to students in Fine Arts Cultural Studies by entrance examination.

**FA/MUSI 1511 3.0 The Musical Experience I.** This course teaches active, creative listening skills and explores the power and significance of music in human life, using illustrations from a broad range of musical practices including jazz, popular, world and classical musics.

*Note: This course is designed for students not majoring or minoring in music. No prior training in music is required. Not open to Music majors or minors. Equivalent to the first half of AK/MUSI 2210 6.0. Materials fee required.*

**FA/MUSI 1512 3.0 The Musical Experience II.** A continuation of FA/MUSI 1511 3.0.

*Note: This course is designed for students not majoring or minoring in music. No prior training in music is required. Not open to Music majors or minors. Equivalent to the second half of AK/MUSI 2210 6.0. Materials fee applies.*

*Prerequisite: FA/MUSI 1511 3.0.*

**FA/MUSI 1520 6.0 Rhythm and Blues, Soul, Funk and Rap.** This course explores in-depth the range of African-American popular musics that have come into existence since the end of World War II. All styles and genres are studied from both a musicological and sociological perspective. Designed for students not majoring or minoring in Music.

*Prerequisite: None.*

**FA/MUSI 1530 6.0 Rock, Country and Popular Music.** This course explores in-depth from both a musicological and sociological perspective the range of Euro-American popular musics as well as some styles of British popular music that have come into existence since the end of World War II. Designed for students not majoring or minoring in Music.

*Prerequisite: None.*

**FA/MUSI 2020 3.0 Classical Performance.** This course provides instruction in instrumental or vocal performance. Students enrol in the course corresponding to their particular instrument.

*Prerequisite: Permission of the course director, by audition.*

*Corequisites: FA/MUSI 2022 3.0, FA/MUSI 2024 3.0 or FA/MUSI 2025 3.0 or FA/MUSI 2026 3.0, FA/MUSI 2053 3.0 or FA/MUSI 2054 3.0.*

**FA/MUSI 2022 3.0 York University Women's Chorus.** Continuation of FA/MUSI 1022 3.0.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 2024 3.0 York University Concert Choir.** Continuation of FA/MUSI 1024 3.0.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 2025 3.0 York University Wind Symphony.** Continuation of FA/MUSI 1025 3.0.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 2026 3.0 Orchestra.** Continuation of FA/MUSI 1026 3.0.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 2028 3.0 York Chamber Music Ensembles.** Continuation of FA/MUSI 1028 3.0.

*Prerequisite: Permission of the course director, by audition.*

*Corequisite: FA/MUSI 2020 3.0.*

**FA/MUSI 2029 3.0 Vocal Diction II.** Continuation of FA/MUSI 1029 3.0 Vocal Diction I. Examines diction as it relates to performance within the tradition of classical voice. Students will receive practical instruction in classical vocal pronunciation, diction, articulation and correct vowel formation with an aim to developing the linguistic fluency and foreign language competency necessary for the vocal art in the Western Classical tradition.

*Prerequisite: FA/MUSI 1029 3.0 or permission of the instructor.*

**FA/MUSI 2031 6.0 Piano Improvisation and Contemporary Styles.** Continuation of FA/MUSI 1031 6.0. Hours vary.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 2032 6.0 Contemporary Musicianship and Improvisation.** Continuation of FA/MUSI 1032 6.0. Hours vary.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 2040 6.0 South Indian Classical Music I.** Practical training in performance styles, together with some of the appropriate theory, terminology and cultural background.

*Prerequisite: No prior experience is necessary, but permission of the course director is required. Open to non-majors.*

**FA/MUSI 2041 6.0 Philippine Kolintang Ensemble I.** Practical training in performance styles, together with some of the appropriate theory, terminology and cultural background.

*Prerequisite: No prior experience is necessary, but permission of the course director is required. Open to non-majors.*

**FA/MUSI 2042 3.0 Gamelan Orchestra.** Group instruction in the technique and performance of Indonesian Gamelan repertoire.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2043 3.0 West African Drum Ensemble.** Practical instruction on the two fontom from ensembles of Ghana.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2044 3.0 North American String Band.** Practical instruction in several vernacular fiddle-based musical traditions of several North American regions. Some knowledge of fiddle, guitar, piano, banjo, harmonica or tin whistle is an asset.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2045 3.0 Klezmer Folk Ensemble.** Practical performance instruction in the Klezmer musical tradition. Some performance ability and knowledge of fiddle, bass, guitar, piano, or clarinet required.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2046 3.0 African-American Musics: Ragtime, Blues, Boogie-Woogie and Barrelhouse Piano.** Practical performance instruction in the African-American traditions of ragtime, blues, barrelhouse, boogie-woogie and stride piano styles.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors with appropriate skill level in piano playing. (Grade VIII RCM level suggested).*

**FA/MUSI 2047 3.0 Chinese Classical Ensemble.** Practical and repertoire studies in traditional Chinese orchestral techniques (chin, erhu etc.) Students learn and perform pieces from the repertoire while concentrating on appropriate instrumental techniques.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2048 3.0 Japanese Music.** Practical and repertoire studies in traditional instrumental techniques (shakuhachi, koto etc.) Students concentrate on issues of performance such as tone colour, rhythmic accuracy and nuance, and ensemble performance.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2049 3.0 Cuban Music.** A performance oriented course dealing primarily with Cuban popular music styles. An in depth examination of various Afro-cuban traditional musics, which have had important influence on the popular styles, will also be presented.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2051 6.0 Jazz Workshop II.**

Continuation of FA/MUSI 1051 6.0. Hours vary.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 2052 3.0 Jazz Orchestra II.**

Continuation of FA/MUSI 1052 3.0.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 2053 3.0 Jazz Choir II.**

Continuation of FA/MUSI 1053 3.0.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 2054A 3.0 Jazz Piano Masterclass.** Continuation of FA/MUSI 1054A 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2054B 3.0 Jazz Bass Masterclass.** Continuation of FA/MUSI 1054B 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2054C 3.0 Jazz Percussion Masterclass.** Continuation of FA/MUSI 1054C 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2054D 3.0 Jazz Guitar Masterclass.** Continuation of FA/MUSI 1054D 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2054E 3.0 Jazz Woodwind Masterclass.** Continuation of FA/MUSI 1054E 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2054F 3.0 Jazz Brass Masterclass.** Continuation of FA/MUSI 1054F 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2054G 3.0 Jazz Vocal Masterclass.** Continuation of FA/MUSI 1054G 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2059 3.0 Jazz Theory and Musicianship II.**

A jazz theory course for students in the jazz performance stream. All students enrolled in FA/MUSI 2051 6.0 must be concurrently enrolled in FA/MUSI 2059 3.0. However, qualified students may elect to take FA/MUSI 2059 3.0 without concurrent enrolment in FA/MUSI 2051 6.0.

*Prerequisite: FA/MUSI 1059 3.0 or equivalent.*

*Prerequisite or corequisite: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.*

**FA/MUSI 2080 3.0/2080 6.0 Classical Piano Performance.** Instruction and recital preparation in classical piano through individual lessons and master classes.

*Prerequisite: Permission of the course director, by audition.*

**FA/MUSI 2081 3.0 Piano Literature and Pedagogy.** Literature and pedagogy of classical piano. Open to non-majors who have studied piano. Activities vary according to the level of skill and experience of the individual student.

*Prerequisite: Permission of the course director.*

**FA/MUSI 2082 3.0 Piano Accompanying.**

This course develops the pianist's ability to function as a sensitive and musical accompanist.

*Prerequisite: Permission of the course director.*

**FA/MUSI 2090 3.0 Middle Eastern Ensemble.** Continuation of FA/MUSI 1090 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2091 3.0 World Music Chorus.**

Continuation of FA/MUSI 1091 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2092 3.0 Early Music Ensemble.** Continuation of FA/MUSI 1092 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2093 3.0 Balkan Music Ensemble.** Continuation of FA/MUSI 1093 3.0.

*Prerequisite: Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.*

**FA/MUSI 2110 3.0 Composition Studio II.** A continuation of work begun in FA/MUSI 1110 3.0, emphasizing the control of variation,

repetition and development to create coherent musical thought in short compositions for small groups of acoustic instruments and voices.

*Prerequisite: FA/MUSI 1110 3.0 (formerly FA/MUSI 2110 3.0) or permission of the course director.*

**FA/MUSI 2140 6.0 Digital Electronic Media II.**

A continuation of work begun in MUSI 1140 6.0, with an emphasis on the historical and contemporary use of digital and electronic music systems. Emphasis is on creative studio work using digital and electronic music systems in composition and performance

*Prerequisites: FA/MUSI 1140 6.0 or permission of the course director and for Music majors, FA/MUSI 1000 6.0 (or 2000 6.0) and FA/MUSI 1200 9.0.*

**FA/MUSI 2200 6.0 Musics and Cultures II.** A continuation of FA/MUSI 1200 9.0. First term: topics in North American music, with emphasis on the dissemination of musical styles and their social contexts. Second term: contemporary music styles and contemporary musical issues. Required of all Music majors.

*Prerequisite: FA/MUSI 1200 9.0.*

**FA/MUSI 2201 3.0 Counterpoint.** Students master the traditional pedagogy of species counterpoint while studying examples of the Renaissance vocal polyphonic style from which it is derived. Correlated work in vocal, aural and keyboard skills is a major component of the course. Four hours plus tutorial.

*Prerequisites: FA/MUSI 1000 6.0 with a minimum final grade of C+, or equivalent score on a proficiency exam and FA/MUSI 1200 9.0.*

**FA/MUSI 2202 3.0 Harmony.** Students study the traditional art of selecting and connecting chords in four voices. Idioms which draw on the formulae of this texture in freer or abstract presentations are also considered, as these are the materials of classical music which are most nearly adopted in jazz, popular and some folk music styles. Four hours plus tutorial.

*Prerequisites: FA/MUSI 1000 6.0 with a minimum final grade of C+, or equivalent score on a proficiency exam and FA/MUSI 1200 9.0.*

**FA/MUSI 2540 6.0 Music of the World's Peoples.** This course is a broad, comparative survey of the indigenous music of North and South America, Africa, Asia, Europe, Australia and Oceania. Selected classical, folk and popular genres from around the globe will be studied from the perspectives of varying social contexts, musical structures and performance practices.

**FA/MUSI 3000 6.0 Score Study, Advanced Musicianship and Conducting.** Advanced musicianship, with emphasis upon skills and methods applicable to learning and teaching music from orchestral vocal and ensemble scores. Individual and class exercises in conducting, analysis, aural recognition, keyboard harmony, sight-reading and transposing.

*Prerequisites or corequisites: Foundation courses. Keyboard proficiency is helpful.*

**FA/MUSI 3010 6.0 Rhythm.** A comprehensive musicianship course, developing rhythmic skills and perception through a detailed study of Indian rhythmic theory and practice from the disciplines of music and dance. Rhythmic systems of other musical cultures are also discussed in a comparative context.

*Prerequisites or corequisites:* Foundation courses or permission of the course director.

**FA/MUSI 3020 3.0 Classical Performance.** This course provides instruction in instrumental or vocal performance. Students enrol in the course number corresponding to their particular instrument.

*Prerequisite:* Permission of the course director, by audition.

*Corequisites:* FA/MUSI 3022 3.0, FA/MUSI 3024 3.0 or FA/MUSI 3025 3.0 or FA/MUSI 3026 3.0, FA/MUSI 3052 3.0 or FA/MUSI 3053 3.0.

**FA/MUSI 3022 3.0 York University Women's Chorus.** Continuation of FA/MUSI 2022 3.0.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 3024 3.0 York University Concert Choir.** Continuation of FA/MUSI 2024 3.0.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 3025 3.0 York University Wind Symphony.** Continuation of FA/MUSI 2025 3.0.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 3026 3.0 Orchestra.** Continuation of FA/MUSI 2026 3.0.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 3028 3.0 York Chamber Music Ensembles.** Continuation of FA/MUSI 2028 3.0.

*Prerequisite:* Permission of the course director, by audition.

*Corequisite:* FA/MUSI 3020 3.0.

**FA/MUSI 3029 6.0 Recital and Master Class in Performance I.** Advanced students in the classical performance stream may audition for an enriched performance experience in their third year. This course is designed for students who have the ability to pursue careers or graduate work in performance. Students are required to perform a mid-year playing exam and a final, one-hour, adjudicated recital including 20th-century repertoire.

*Prerequisite:* At least six credits in classical performance at the 2000 level with a minimum grade of B+, or permission of the audition jury.

*Corequisite:* FA/MUSI 3020 3.0.

**FA/MUSI 3031 6.0 Piano Improvisation and Contemporary Styles.** Continuation of FA/MUSI 2031 6.0.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 3032 6.0 Contemporary Musicianship and Improvisation.** Continuation of FA/MUSI 2032 6.0.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 3040 6.0 South Indian Classical Music II.** A continuation of FA/MUSI 2040 6.0.

*Prerequisites:* FA/MUSI 2040 6.0 and permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3041 6.0 Philippine Kolintang Ensemble II.** A continuation of FA/MUSI 2041 6.0.

*Prerequisites:* FA/MUSI 2041 6.0 and permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3042 3.0 Gamelan Orchestra.** A continuation of FA/MUSI 2042 3.0.

*Prerequisites:* FA/MUSI 2042G 3.0 or FA/MUSI 2042 3.0 and permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3043 3.0 West African Drum Ensemble.** A continuation of FA/MUSI 2043 3.0.

*Prerequisites:* FA/MUSI 2043 3.0 and permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3044 3.0 North American String Band.** A continuation of FA/MUSI 2044 3.0.

*Prerequisites:* FA/MUSI 2044 3.0 and permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3045 6.0 Klezmer Folk Ensemble.** A continuation of FA/MUSI 2045 3.0.

*Prerequisites:* FA/MUSI 2045 3.0 and permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3046 6.0 African-American Musics: Ragtime, Blues, Boogie-Woogie and Barrelhouse Piano.** A continuation of FA/MUSI 2046 3.0.

*Prerequisites:* FA/MUSI 2046 3.0 and permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3047 3.0 Chinese Classical Ensemble.** A continuation of FA/MUSI 2047 3.0.

*Prerequisites:* FA/MUSI 2047 3.0 and permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3048 3.0 Japanese Music.** A continuation of FA/MUSI 2048 3.0.

*Prerequisites:* FA/MUSI 2048 3.0 and permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3049 3.0 Cuban Music.** A continuation of FA/MUSI 2049 3.0.

*Prerequisites:* FA/MUSI 2049 3.0 and permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3051 6.0 Jazz Workshop III.** Advanced improvising and ensemble playing in contemporary jazz, emphasizing theoretical and practical competence in some of its main idioms. Students receive applied training in performance workshops each week.

*Prerequisites:* FA/MUSI 2051 6.0 and permission of the course director, by audition.

*Corequisite:* FA/MUSI 3059 6.0.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3052 3.0 Jazz Orchestra III.** Continuation of FA/MUSI 2052 3.0.

*Prerequisite:* Permission of course director, by audition.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3053 3.0 Jazz Choir III.** Continuation of FA/MUSI 2053 3.0.

*Prerequisites and corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3054A 3.0 Jazz Piano Masterclass.** Continuation of FA/MUSI 2054A 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3054B 3.0 Jazz Bass Masterclass.** Continuation of FA/MUSI 2054B 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3054C 3.0 Jazz Percussion Masterclass.** Continuation of FA/MUSI 2054C 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3054D 3.0 Jazz Guitar Masterclass.** Continuation of FA/MUSI 2054D 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3054E 3.0 Jazz Woodwind Masterclass.** Continuation of FA/MUSI 2054E 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3054F 3.0 Jazz Brass Masterclass.** Continuation of FA/MUSI 2054F 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3054G 3.0 Jazz Vocal Masterclass.** Continuation of FA/MUSI 2054G 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3059 6.0 Jazz Theory and Musicianship III.** An intensive jazz theory course for students in the jazz performance stream who through assessment at the beginning of third year, are eligible to proceed to advanced studies.

*Prerequisite:* FA/MUSI 2059 3.0 or equivalent, or permission of the course director.

*Prerequisites or corequisites:* For Music majors, Foundation Courses.

**FA/MUSI 3070 3.0/3070 6.0 Electro-acoustic Orchestra.** This course allows students to participate in a large electro-acoustic orchestra that will create (re-create) and perform both historical and contemporary repertoire using both the latest digital sound production hardware as well as traditional instruments. A participating student will be required to function as both performer and in at least one other capacity such as composer, arranger, improviser or conductor.

**FA/MUSI 3071 3.0 Synthesizer Performance.** This course prepares the student for a career as a professional synthesizer artist. It deals with the development of specific performance techniques, style considerations and sonic perception related to contemporary synthesizer practice.

*Prerequisite:* Foundation courses.

**FA/MUSI 3080 3.0/3080 6.0 Classical Piano Performance.** Instruction and recital preparation in classical piano through individual lessons and master classes.

*Prerequisite:* Permission of the course director, by audition.

*Corequisite:* FA/MUSI 3081 3.0.

**FA/MUSI 3081 3.0 Piano Literature and Pedagogy.** Literature and pedagogy of classical piano. Open to non-majors who have studied piano. Activities vary according to the level of skill and experience of the individual student.

*Prerequisite:* Permission of the course director.

**FA/MUSI 3082 3.0 Piano Accompanying.** This course develops the pianist's ability to function as a sensitive and musical accompanist.

*Prerequisite:* Permission of the course director.

**FA/MUSI 3090 3.0 Middle Eastern Ensemble.** Continuation of FA/MUSI 2090 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3091 3.0 World Music Chorus.** Continuation of FA/MUSI 2091 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3092 3.0 Early Music Ensemble.** Continuation of FA/MUSI 2092 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3093 3.0 Balkan Music Ensemble.** Continuation of FA/MUSI 2093 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 3110 6.0 Composition Studio III.** Students are encouraged to compose in contemporary idioms and to undertake exercises which expand their awareness of styles, methods, materials, notation systems. Hours vary.

*Prerequisites or corequisites:* Foundation courses or permission of the course director.

**FA/MUSI 3120 3.0 Song Writing and Repertoire.** Students develop and explore aspects of the compositional process by dealing with melodic, rhythmic, harmonic, formal and textural considerations as they pertain to song writing. Students are required to produce a substantial number of original songs and analyze relevant material from the literature. The use of the multi-track recording process is studied as a compositional aid and as a means of producing pre-production demos.

*Prerequisites:* Foundation courses, or permission of the course director.

*Note:* Materials fee, \$25.

**FA/MUSI 3131 3.0 Jazz Composition and Arranging (Small Ensembles).** A study of jazz compositional techniques of the past and present through analysis, transcription and performance. Aims of the course are development of a basic craft, and experimentation leading towards a more

personal expression. Projects for small ensembles are required and read by members of the class.

*Prerequisites:* FA/MUSI 2201 3.0, FA/MUSI 2202 3.0 and FA/MUSI 2051 6.0, or permission of the course director.

**FA/MUSI 3132 3.0 Jazz Composition and Arranging (Large Ensembles).** A study of jazz compositional techniques of the past and present through analysis, transcription and performance. Aims of the course are development of a basic craft, and experimentation leading towards a more personal expression. Projects for large ensembles are required and read by members of the class.

*Prerequisites:* FA/MUSI 2201 3.0, FA/MUSI 2202 3.0 and FA/MUSI 2051 6.0, or permission of the course director.

**FA/MUSI 3140 6.0 Digital and Electronic Media III.** Continuation of FA/MUSI2140 6.0.

*Prerequisite:* FA/MUSI2140 6.0 or equivalent, or permission of the course director. Enrolment limited.

**FA/MUSI 3201 3.0 Fugal Style.** An introduction to fugal composition including advanced work in tonal harmony and counterpoint. Students analyze compositions in fugal style, principally those of J.S. Bach with some regard to earlier and later developments, and learn to organize and execute compositions using the techniques of this genre.

*Prerequisite:* FA/MUSI 2201 3.0.

*Prerequisite or corequisite:* FA/MUSI 2200 6.0.

**FA/MUSI 3202 3.0 Sonata Style.** An introduction to composition in sonata form and related genres in advanced tonal harmonic style. Students analyze compositions in sonata style, principally those of Haydn, Mozart and Beethoven, with some regard to earlier and later developments, and learn to organize and execute compositions using the techniques of this genre.

*Prerequisite:* FA/MUSI 2202 3.0.

*Prerequisite or corequisite:* FA/MUSI 2200 6.0.

**FA/MUSI 3210 6.0 Introduction to Sonic Architecture and Design.** This course introduces students to the complex world of sonic architecture and design. Through the manipulation, control and creation of digital instruments, the class will explore the musical and technical aspects of sonic theory and practice in the digital domain.

*Prerequisite:* For Music majors, Foundation courses.

**FA/MUSI 3220 3.0 Introduction to Alternate Tunings.** This course deals with the historical, theoretical, aesthetic and practical aspects of various alternate and microtonal tuning systems. Mathematical relationships, practical applications, sonic characteristics and compositional aesthetics will be discussed. Students will be encouraged to create original systems and to perform and compose music using various temperaments.

*Prerequisite:* Foundation courses.



**FA/MUSI 3240 6.0 Instrumentation and Orchestration.** A study of instruments, singly and in combination, with respect to their use in composition. The course emphasizes traditional instruments of the band and orchestra, though other types of instrumentation may be considered. The student's main work involves regular exercises in arranging or composing in a variety of styles.

*Prerequisites:* Foundations courses.

**FA/MUSI 3300 6.0 Music of World Cultures.** An introduction, through listening and analysis, filmed or live demonstrations, and occasional field trips, to the musical traditions of specific nations and communities. The social practices, concepts and sound structures of the music, as well as the impact of contemporary recording technologies will be explored.

*Prerequisite:* For Music majors, foundation courses.

*Degree credit exclusion:* FA/MUSI 2310 6.0.

**FA/MUSI 3310 6.0 Music in the Modern Era.** A study of major musical developments from 1890 to 1950 in Europe and North America, with emphasis on the relationship between innovation and tradition and on problems of style and communication in an era of rapid social and cultural change.

*Prerequisites:* For Music majors, foundation courses. Open to non-majors/minors by permission of the course director.

**FA/MUSI 3320 6.0 Music of India.** Theoretical systems and contemporary performance styles in relation to one another and in the context of a number of closely related aspects of Indian culture.

*Prerequisites or corequisites:* Foundation courses. Open to non-majors/minors by permission of the course director.

**FA/MUSI 3340 6.0 History of European Music.**

A survey of the history of European music from 1590 to 1890, with particular attention to Italy, France, Austria and Germany. Important works of major composers are examined in detail with reference to the pertinent social and historical contexts.

*Prerequisite:* For Music majors, foundation courses.

*Degree credit exclusions:* FA/MUSI 2220 6.0, AK/MUSI 2220 6.0.

**FA/MUSI 3350 6.0 Music of the Americas.** A study of the various musical traditions that have been absorbed and transformed by the emerging civilizations of the New World. Topics include: the history of music in British North America; the blending of African, European and native idioms in Latin America and the Caribbean; the rise and development of jazz, blues and urban popular music (including rock); the music and musical culture of minority groups; New World musics in their cultural context. Equivalent to AK/MUSI 3440 6.0.

*Prerequisite:* For Music majors, foundation courses.

*Degree credit exclusion:* FA/MUSI 2350 6.0.

**FA/MUSI 3360 6.0 Jazz History and Repertory Studies.** Jazz history and repertory emphasizing the small group tradition in the US from the mid-1930s to the late 1960s. Various paradigms for jazz history, style analysis and criticism are examined, with attention to jazz as a repertory music as well as a musical process.

*Prerequisites:* For Music majors, foundation courses. Open to non-majors/minors by permission of the course director.

**FA/MUSI 3370 3.0 Opera.** A history of opera from its origins to the 20th century, exploring the interrelationship of music and drama. Production and staging techniques are discussed, and students are required to attend and comment critically upon all aspects of at least one live operatic performance.

**FA/MUSI 3380 3.0 Western Art Song.** A study of the interconnections between poetry and music in western art song, particularly in the 19th- and 20th-century German Lied, French chanson and English/North American song.

**FA/MUSI 3390 3.0/3390 6.0 Special Topics I.** In any given year, special studies courses may be offered.

*Prerequisites:* Foundation courses.

**FA/MUSI 3450 3.0 Creative Applications of MIDI Technology.** A major focus of the course is the mastery of MIDI technology as a means towards individual artistic expression. Class work includes regular assignments using a variety of instruments and techniques and demands both live and recorded performances. The use of MIDI-equipped mixers, effects units and rhythm composers are explored.

*Prerequisites:* Foundation courses; or FA/MUSI 2110 3.0 and FA/MUSI 2111 3.0.

*Note:* Materials fee, \$25.

**FA/MUSI 3460 3.0 Music Engraving and Notation Using Computers.** This course deals with aesthetic, theoretical and practical considerations involved in the production and printing of music scores, and develops skill in score layout, part extraction, preparation for publications, step time/MIDI input techniques, scanning and other relevant techniques.

*Prerequisite:* Foundation courses.

**FA/MUSI 3470 3.0 Pedagogical Applications of Computer Software in the Contemporary Music Curriculum.** This course explores the recent and growing use of music software in teaching subjects such as ear training and rudiments, musicianship, theory, history and analysis. Computer-aided instruction and interactive tools are considered.

*Prerequisite:* Foundation courses.

**FA/MUSI 3900 3.0/3900 6.0 Special Options I.** In any given year, special courses may be offered in theory, composition, or performance.

*Prerequisites:* Foundation Courses.

**FA/MUSI 4020 3.0 Classical Performance.** This course provides instruction in instrumental or vocal performance. Students enrol in the course corresponding to their particular instrument.

*Prerequisite:* Permission of the course director, by audition.

*Corequisites:* FA/MUSI 4022 3.0, FA/MUSI 4024 3.0 or FA/MUSI 4025 3.0 or FA/MUSI 4026 3.0 or FA/MUSI 4052 3.0 or FA/MUSI 4053 3.0.

**FA/MUSI 4022 3.0 York University Women's Chorus.** Continuation of FA/MUSI 3022 3.0.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 4024 3.0 York University Concert Choir.** Continuation of FA/MUSI 3024 3.0.

*Prerequisites:* Permission of the course director, by audition.

**FA/MUSI 4025 3.0 York University Wind Symphony.** Continuation of FA/MUSI 3025 3.0.

*Prerequisites:* Permission of the course director, by audition.

**FA/MUSI 4026 3.0 Orchestra.** Continuation of FA/MUSI 3026 3.0.

*Prerequisites:* Permission of the course director, by audition.

**FA/MUSI 4028 3.0 York Chamber Music Ensembles.** Continuation of FA/MUSI 3028 3.0.

*Prerequisite:* Permission of the course director, by audition.

*Corequisite:* FA/MUSI 4020 3.0.

**FA/MUSI 4029 6.0 Recital and Master Class in Performance II.** Continuation of FA/MUSI 3029 6.0.

*Prerequisites:* FA/MUSI 3029 6.0 with a minimum grade of B+, or permission of the audition jury.

*Corequisite:* FA/MUSI 4020 3.0.

**FA/MUSI 4031 6.0 Piano Improvisation and Contemporary Styles.** Continuation of FA/MUSI 3031 6.0.

*Prerequisites:* Permission of the course director, by audition.

**FA/MUSI 4032 6.0 Contemporary Musicianship and Improvisation.** Continuation of FA/MUSI 3032 6.0. Hours vary.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 4040 6.0 South Indian Classical Music.** Continuation of FA/MUSI 3040 6.0.

*Prerequisites:* FA/MUSI 3040 6.0 and permission of the course director.

**FA/MUSI 4041 6.0 Philippine Kolintang Ensemble.** Continuation of FA/MUSI 3041 6.0.

*Prerequisites:* FA/MUSI 3041 6.0 and permission of the course director.

**FA/MUSI 4042 3.0 Gamelan Orchestra.** A continuation of FA/MUSI 3042 3.0.

*Prerequisites:* FA/MUSI 3042 3.0 and permission of the course director.

**FA/MUSI 4043 3.0 West African Drum Ensemble.** A continuation of FA/MUSI 3043 3.0.

*Prerequisites:* FA/MUSI 3043 3.0 and permission of the course director.

**FA/MUSI 4044 3.0 North American String Band.** A continuation of FA/MUSI 3044 3.0.

*Prerequisites:* FA/MUSI 3044 3.0 and permission of the course director.

**FA/MUSI 4045 3.0 Klezmer Folk Ensemble.** A continuation of FA/MUSI 3045 3.0.

*Prerequisites:* FA/MUSI 3045 3.0 and permission of the course director.

**FA/MUSI 4046 3.0 African-American Musics: Ragtime, Blues, Boogie-Woogie and Barrelhouse Piano.** A continuation of FA/MUSI 3046 3.0.

*Prerequisites:* FA/MUSI 3046 3.0 and permission of the course director.

**FA/MUSI 4047 3.0 Chinese Classical Ensemble.** A continuation of FA/MUSI 3047 3.0.

*Prerequisites:* FA/MUSI 3047 3.0 and permission of the course director.

**FA/MUSI 4048 3.0 Japanese Music.** A continuation of FA/MUSI 3048 3.0.

*Prerequisites:* FA/MUSI 3048 3.0 and permission of the course director.

**FA/MUSI 4049 3.0 Cuban Music.** A continuation of FA/MUSI 3049 3.0.

*Prerequisites:* FA/MUSI 3049 3.0 and permission of the course director.

**FA/MUSI 4051 6.0 Jazz Workshop IV.** A continuation and intensification of FA/MUSI 3051 6.0. Students receive applied training in performance workshops each week.

*Prerequisites:* FA/MUSI 3051 6.0 and FA/MUSI 3059 6.0.

*Corequisite:* FA/MUSI 4059 6.0.

**FA/MUSI 4052 3.0 Jazz Orchestra IV.** Continuation of FA/MUSI 3052 3.0.

*Prerequisites:* Permission of the course director, by audition.

**FA/MUSI 4053 3.0 Jazz Choir IV.** Continuation of FA/MUSI 3053 3.0.

*Prerequisites:* FA/MUSI 3053 3.0 and permission of the course director, by audition, and for Music majors, Foundation Courses.

**FA/MUSI 4054A 3.0 Jazz Piano Masterclass.** Continuation of FA/MUSI 3054A 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4054B 3.0 Jazz Bass Masterclass.** Continuation of FA/MUSI 3054B 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4054C 3.0 Jazz Percussion Masterclass.** Continuation of FA/MUSI 3054C 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4054D 3.0 Jazz Guitar Masterclass.** Continuation of FA/MUSI 3054D 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4054E 3.0 Jazz Woodwind Masterclass.** Continuation of FA/MUSI 3054E 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4054F 3.0 Jazz Brass Masterclass.** Continuation of FA/MUSI 3054F 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4054G 3.0 Jazz Vocal Masterclass.** Continuation of FA/MUSI 3054G 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4059 6.0 Jazz Theory and Musicianship IV.** A continuation and intensification of FA/MUSI 3059 6.0. All students in FA/MUSI 4051 6.0 must be concurrently enrolled in FA/MUSI 4059 6.0. Qualified students, however, may elect to take FA/MUSI 4059 6.0 without concurrent enrolment in FA/MUSI 4051 6.0.

*Prerequisite:* FA/MUSI 3059 6.0.

**FA/MUSI 4070 3.0/4070 6.0 Electro-acoustic Orchestra.** This course allows students to participate in a large electro-acoustic orchestra that will create (re-create) and perform both historical and contemporary repertoire using both the latest digital sound production hardware as well as traditional instruments. A participating student will be required to function as both performer and in at least one other capacity such as composer, arranger, improviser, or conductor.

**FA/MUSI 4080 3.0/4080 6.0 Classical Piano Performance.** Instruction and recital preparation in classical piano through individual lessons and master classes.

*Prerequisite:* Permission of the course director, by audition.

**FA/MUSI 4081 3.0 Piano Literature and Pedagogy.** Literature and pedagogy of classical piano. Open to non-majors who have studied piano. Activities vary according to the level of skill and experience of the individual student.

*Prerequisite:* Permission of the course director.

**FA/MUSI 4082 3.0 Piano Accompanying.** This course develops the pianist's ability to function as a sensitive and musical accompanist.

*Prerequisite:* Permission of the course director.

**FA/MUSI 4090 3.0 Middle Eastern Ensemble.** Continuation of FA/MUSI 3090 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4091 3.0 World Music Chorus.** Continuation of FA/MUSI 3091 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4092 3.0 Early Music Ensemble.** Continuation of FA/MUSI 3092 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4093 3.0 Balkan Music Ensemble.** Continuation of FA/MUSI 3093 3.0.

*Prerequisite:* Appropriate lower level or permission of the instructor required for upper level registration. Open to majors and non-majors.

**FA/MUSI 4110 6.0 Composition Studio IV.** A continuation of FA/MUSI 3110 6.0. Advanced work in composition, analysis and current music-theoretic ideas of relevance to the composer.

*Prerequisites:* FA/MUSI 3110 6.0 and permission of the course director. Prior or concurrent courses in the theory and literature of 20th-century music, such as FA/MUSI 3310 6.0 or FA/MUSI 4300 3.0, are strongly recommended.

**FA/MUSI 4140 6.0 Digital and Electronic Media IV.** A continuation of FA/MUSI 3140 6.0. Advanced electro-acoustical composition studies involving composing with analogue, digital and computer-based music systems. Students are expected to complete and present several electro-acoustics compositions in the following formats tape, live and tape, acoustic instruments and tape.

*Prerequisite:* FA/MUSI 3140 6.0 and permission of the course director.

**FA/MUSI 4150 6.0 Digital Recording, Editing and Composition.** This course deals with digital composition techniques. Included are topics such as: hard-disk recording, destructive and non-destructive editing, non-linear editing, digital signal processing, digital audio sampling, multipass processing, processor smoothing, effects portamento, sample looping, crossfading and other additional rubrics.

*Prerequisite: Foundation courses and permission of the course director.*

**FA/MUSI 4200 3.0 Topics in Advanced Theory and Analysis.** A seminar in contemporary musical analysis emphasizing the comprehensive investigation of complete musical works. Drawing on such perspectives as set theory or Schenkerian reduction, the course introduces the student to research problems in theory and analysis from various perspectives.

*Prerequisite: A minimum grade of B in a third year theory course.*

**FA/MUSI 4300 3.0 Studies in Contemporary Music.** Analytical and historical studies of the theory and development of contemporary music, with emphasis on the latter half of the 20th century.

*Prerequisite: FA/MUSI 3310 6.0, or permission of the course director.*

**FA/MUSI 4320 3.0 Honours Seminar.** Researchers are motivated by problems which reflect basic issues in intellectual history, humanities, science and social science. In this course, pilot projects will introduce the broad range of research tools which several centuries of theory and academic scholarship have made available to musical study.

*Prerequisite: A minimum grade of B in an upper-level studies course.*

**FA/MUSI 4370 3.0 Music of Canada.** Canadians tend to be sharply aware of the derivative aspects of their culture; yet the physiognomy of Canadian music taken as a whole is unique. This course studies selected aspects of Canadian musical achievements which offer perspectives on our national situation.

*Prerequisite: FA/MUSI 3310 6.0, FA/MUSI 3350 6.0, or permission of the course director.*

**FA/MUSI 4380 3.0 Historical Studies in Music.** The introductory unit of the course situates the chosen topic with regard to historiographical variables and methods. Then a focused study of a period, style, or individual is devoted to the detailed assessment of continuity, influence and change in music history.

*Prerequisite: An upper-level studies course.*

**FA/MUSI 4381 3.0 Cultural Studies in Music.** Musical styles are shaped by their interactions with language, religion, economy, other arts and with the whole fabric of social life. This course studies selected musical traditions with the aim of exploring their dependence on, and contribution to, the cultural matrix. When appropriate, the course may explore traditional activities in local communities.

*Prerequisite: An upper-level studies course.*

**FA/MUSI 4390 3.0/4390 6.0 Special Topics II.** In any given year, advanced courses may be offered in history or area studies.

*Prerequisite: An upper-level studies course.*

**FA/MUSI 4399 3.0 Special Topics in the Graduate Program.** Fourth-year undergraduates who have the necessary background may apply to take certain half courses offered in the graduate program.

*Prerequisites: Permission of both the Graduate Program Director and the course director; a minimum grade of B+ in an upper-level studies course.*

**FA/MUSI 4590 3.0/4590 6.0 Honours Project in Music.** A special project option open to fourth year students who have shown an exceptional ability to study independently and who have designed a course that cannot be accommodated elsewhere in the department's offerings. At the end of the year, the student's work is evaluated on the basis of one or more of the following: a recital, composition, research paper, or lecture-recital.

*Note: See departmental supplementary calendar for specific requirements.*

*Prerequisite: Permission of the Curriculum Committee.*

**FA/MUSI 4600 6.0 Seminar on the Sonic Enhancement of Healing and Learning.** A seminar exploring the use of sound, in conjunction with colour and other subtle energies, as tools for the enhancement of healing, learning and creative activity in the context of recent literature from the disciplines of metaphysics, physics, biology, psychology, phonology, thanatology, colour theory and music composition.

*Prerequisite: An upper level studies course, or permission of the course director.*

**FA/MUSI 4900 3.0/4900 6.0 Special Options II.** In any given year, advanced courses may be offered in theory, composition, or performance.

*Prerequisite: A third-year theory, musicianship, composition, or performance course.*

## Natural Science – Pure and Applied Science

**Division Office:**  
110K Steacie, 416-736- 5021

**Director of the Division:**  
C.E. Holloway

**Professors:**  
J.J. Caldwell, J.M. Goodings, D.R. Hastie, J.N. Hattiangadi, J.A.M. Heddle, C.E. Holloway, R.A. Jarrell, L.E. Licht, B.G. Loughton, M.L. McCall, J. Sapp, H. Wilson

**Associate Professors:**  
S. Jeffers, R.A. Koehler, F.J. Morgan

**Associate Professor Emeritus:**  
G. Hunter

**Senior Lecturers:**  
P.A. Delaney, S.B. Joshi

**Associate Lecturers:**  
E.C. Gardonio, N. Smith

## Courses in Natural Science

The Natural Science courses are designed, as part of the general education program, to acquaint those students not intending to be professionally concerned with science with the outlook, methods and some of the achievements of science. The individual courses offered approach this objective by selecting a particular area, problem or aspect of science in which the operations of the scientific enterprise can be studied in some detail.

The courses may be broadly classified into four areas, within which some overlap occurs, resulting in degree credit exclusions as noted. However, in certain circumstances, such exclusions are petitionable. The four categories are as follows:

- History and Philosophy of Science and Technology (with science laboratories and/or tutorials): SC/NATS 1710 6.0, SC/NATS 1730 6.0, SC/NATS 1760 6.0;
- Biological Science: SC/NATS 1610 6.0, SC/NATS 1620 6.0, SC/NATS 1650 6.0, SC/NATS 1660 6.0, SC/NATS 1680 6.0, SC/NATS 1690 6.0, SC/NATS 1695 6.0, SC/NATS 1850 6.0;
- Environmental Science: SC/NATS 1640 6.0, SC/NATS 1770 6.0, SC/NATS 1840 6.0;
- Physical Science: SC/NATS 1720 6.0 (also has a psychological component), SC/NATS 1740 6.0, SC/NATS 1750 6.0, SC/NATS 1780 6.0 (has an environmental aspect), SC/NATS 1790 6.0, SC/NATS 1810 6.0, SC/NATS 1820 6.0, SC/NATS 1830 6.0.

**The Natural Science courses are intended primarily for non-Science majors.** Courses in Biology, Chemistry, Earth and Atmospheric Science, Physics and Astronomy and other science disciplines are described elsewhere in this section of the Calendar. Those courses are available, subject to prerequisites, as electives to students in the Faculties of Arts and Fine Arts. Six credits from 1000-level courses offered by the departments of Biology, Chemistry, Earth and Atmospheric Science, Physics and Astronomy, will satisfy the Faculty of Arts Natural Science general education requirement.

**Grading Procedure.** Grades will be assigned in the manner described by the Faculty of Pure and Applied Science in Science section III "Regulations Governing Examinations and Academic Standards."

Not all Natural Science courses will be offered in any given year. The contact hour information in the course outlines below specifies the number of hours per week when the course is taught in the daytime in a Fall/Winter Session. If the course is offered in a Summer Session, the format and scheduling may be different, though equivalent in credit value. For all such scheduling details, students should consult the Lecture Schedules or the Natural Science mini-calendar which is published in March of each year.

The Natural Science courses all follow the Faculty of Arts sessional dates.

For a list of Atkinson Faculty of Liberal and Professional Studies courses which are degree credit exclusions for Natural Science courses in this Calendar, Arts students should consult the Faculty of Arts Degree Credit Exclusion/Equivalent Tables in the back of the Lecture Schedules. Science students should consult the Faculty of Pure and Applied Science Degree Credit Exclusion/Equivalent Tables in the back of the Lecture Schedules and in the Office of Science Academic Services beginning in March each year.

**SC/NATS 1610 6.0 The Living Body.** Some aspects of human biology, including structure and function, reproduction, physiology, genetics and a study of some human diseases. Laboratories are self-paced, scheduled audio-tutorials involving demonstrations, experiments and observations. Two lecture hours, two laboratory hours. Two terms. Six credits.

*Degree credit exclusions:* SC/NATS 1620 6.0 (taken before 2001-2002), SC/NATS 1660 6.0, SC/NATS 1690 6.0. Not open to students enrolled in Biology programs.

**SC/NATS 1620 6.0 Human Biology: Brain and Behaviour.** The first term examines nerve cells, drug action, visual and auditory systems, and neural bases of learning and memory. Brain imaging is discussed. The second term focuses on muscle control, brain development, human genetics and brain evolution. Three lecture hours for two terms, two laboratory hours for one term. Six credits.

*Degree credit exclusion:* Not open to students enrolled in Biology programs.

**SC/NATS 1640 6.0 Biology and the Environment.** This course provides an understanding of the fundamental biological and ecological principles influencing the environment. The impact of the human species on the biosphere and inter-relationships with all living organisms are discussed in the context of environmental concerns. Three lecture hours, one tutorial hour. Two terms. Six credits.

*Degree credit exclusions:* SC/NATS 1690 6.0, SC/NATS 1770 6.0, SC/NATS 1840 6.0, ES/ENVS 1500 6.0. Not open to students enrolled in Biology programs.

**SC/NATS 1650 6.0 Human Anatomy for the Fine Arts.** An introductory course on the structure and function of the human body specifically oriented towards the needs of students in Fine Arts. Body systems are studied from anatomical, physiological and biomechanical perspectives. Included as well are on-going references to nutrition, athletic injuries, and health and wellness. Two lecture hours, two laboratory hours. Two terms. Six credits.

*Degree credit exclusions:* AS/SC/KINE 2031 3.0, AS/SC/KINE 3070 3.0, AS/PHED 2030 3.0, SC/PHED 2030 4.0, AS/SC/PHED 2070 3.0, SC/PHED 2070 4.0, AS/PHED 3070 3.0, SC/PHED 3070 4.0.

#### SC/NATS 1660 6.0 The Biology of Sex.

This course investigates the role of sexual reproduction in the living world. The cellular, physiological and genetic bases of sex are discussed. Other topics include sexual behaviour and the influence of sexual reproduction on evolution. Three lecture hours for two terms, two laboratory hours for one term. Six credits.

*Degree credit exclusions:* SC/NATS 1610 6.0, SC/NATS 1690 6.0. Not open to students enrolled in Biology programs.

#### SC/NATS 1680 6.0 The Genetic Revolution.

This course examines the impact of recent genetic discoveries on medicine, agriculture and industry. New technologies employ enzymes to cut and splice DNA from different organisms. This has the potential to benefit human society but gene manipulations raise important ethical questions. Three lecture hours, one tutorial hour. Two terms. Six credits.

*Degree credit exclusions:* SC/NATS 1800J 6.0A, SC/NATS 1800J 6.0B, SC/NATS 1850 6.0, SC/BC 1850 6.0. Not open to students enrolled in Biology programs.

**SC/NATS 1690 6.0 Evolution.** This course concerns the origin and diversification of life forms on Earth. Students are introduced to the historical development of evolutionary theory, classification of living things and to scientific explanations of how biological diversity has arisen. Three lecture hours for two terms, two laboratory hours for one term. Six credits.

*Degree credit exclusions:* SC/NATS 1610 6.0, SC/NATS 1640 6.0, SC/NATS 1660 6.0, SC/NATS 1695 6.0. Not open to students enrolled in Biology programs.

**SC/NATS 1695 6.0 Evolution and the Diversity of Life.** An introductory overview of some of the major issues, concepts and theories concerning evolution and the diversity of life from the rise of Darwinism in the 19th century, to molecular biology and global ecology in the second half of the 20th century. Three lecture hours, one tutorial hour. Two terms. Six credits.

*Degree credit exclusions:* SC/NATS 1690 6.0, AK/NATS 1770 6.0. Not open to students enrolled in Biology programs.

**SC/NATS 1710 6.0 The Nature and Growth of Scientific Thought.** Science is examined as an intellectual activity. Emphasis is placed on the evolution of some key concepts to show the nature and methodology of natural science, the development of scientific ideas and their grounding in experience. Three lecture hours plus scheduled laboratory sessions. Two terms. Six credits.

*Degree credit exclusion:* SC/NATS 1730 6.0.

**SC/NATS 1720 6.0 Light and Sound.** An introduction to the physics, physiology and psychology of light and sound, together with some of the historical background and philosophical implications of these studies. Three lecture hours plus scheduled laboratory sessions. Two terms. Six credits.

**SC/NATS 1730 6.0 Science as Discovery.** A study of the nature of scientific discovery based on several case histories, including the Ptolemaic and Copernican planetary theories, the Newtonian mechanist system, Darwin's theory of evolution, Einstein's relativity, and Watson and Crick's discovery of the structure of DNA. Three lecture hours, one tutorial hour. Two terms. Six credits.

*Degree credit exclusion:* SC/NATS 1710 6.0.

**SC/NATS 1740 6.0 Astronomy.** A discussion of our present understanding of the universe and its constituents. Topics include the structure and evolution of the planets, stars, galaxies and the universe as a whole. Three lecture hours per week, two-hour laboratory sessions every second week. Two terms. Six credits.

*Degree credit exclusions:* Not open to any student who has passed or is taking SC/PHYS 1070 4.0 or SC/PHYS 1070 3.0.

**SC/NATS 1750 6.0 The Earth and Its Atmosphere.** Topics addressed concerning the Earth include geochronology, seismology, geomagnetism and plate tectonics. Topics addressed concerning the atmosphere include the general circulation, climate change, ozone depletion, weather and violent storms. Three lecture hours, one tutorial hour. Two terms. Six credits.

*Degree credit exclusions:* SC/NATS 1780 6.0, SC/NATS 1800H 6.0. Not open to any student who has passed or is taking a course in Earth and Atmospheric Science.

**SC/NATS 1760 6.0 Science and Technological Change.** The relationship and interaction between science and technology are explored through a number of topics, both biological and physical. Specific topics discussed may vary from year to year, but most have relevance to our everyday lives and life-styles. Three lecture hours, one tutorial hour. Two terms. Six credits.

**SC/NATS 1770 6.0 Technology and the Environment.** Basic scientific principles and reasoning need to be applied to environmental pollution. Underlying causes of the present difficulties and current technological solutions are examined. Some ecological and societal aspects of pollution are discussed. Three lecture hours per week, one tutorial hour every second week. Two terms. Six credits.

*Degree credit exclusions:* SC/NATS 1640 6.0, SC/NATS 1840 6.0.

**SC/NATS 1780 6.0 Weather and Climate.** The weather and health of our atmosphere affect us all. This course provides an overview of the Earth's atmosphere; its chemistry, physics and dynamics; an introduction to meteorology and weather forecasting; and a discussion of climate. Canada's weather and climate are emphasized. Three lecture hours, one tutorial hour. Two terms. Six credits.

*Degree credit exclusions:* SC/NATS 1750 6.0, SC/NATS 1800H 6.0.

**SC/NATS 1790 6.0 The Science of Flight.** This course presents basic physical principles by studying various aspects of aircraft and flying.

Topics include properties of air as a fluid, aero-engines, basic theory of flight, principles of aircraft instruments and navigation, and processes which influence the weather. Three lecture hours, one tutorial hour. Two terms. Six credits.

**SC/NATS 1800 6.0 Special Topics in Natural Science.** Each year the division may offer full courses of a unique or experimental character in Natural Science. Descriptions of such courses are available in the divisional office in March of the preceding year. Two terms. Six credits.

**SC/NATS 1810 6.0 Energy.** Conversion technology of current and possible future energy sources is described. The extent of the resource base of each and the environmental consequences of utilization are discussed, with emphasis on nuclear power and energy policies of Ontario and Canada. Three lecture hours, one tutorial hour. Two terms. Six credits.

*Degree credit exclusions:* SC/NATS 1800C 6.0, SC/BC 1810 6.0.

**SC/NATS 1820 6.0 Chemistry in Modern Living.** A study of the role of chemistry in contemporary society. Relevant topics are selected each year to show how chemistry impinges upon daily life. Important historical perspectives and basic concepts, such as energy and atomic/molecular structure, are introduced as background. Three lecture hours, one tutorial hour. Two terms. Six credits.

*Degree credit exclusions:* Not open to any student who has passed or is taking any one of SC/CHEM 1000 6.0, SC/CHEM 1000 3.0, SC/CHEM 1001 3.0, SC/CHEM 1010 6.0.

**SC/NATS 1830 6.0 Matter and Structure.** From atomic structure comes molecular structure, and, in turn, come the physical properties of matter composed of atoms and molecules. The relationship between physical properties and usefulness of materials is developed. The role of science in developing new materials is discussed. Three lecture hours per week, two tutorial/laboratory hours in alternate weeks. Two terms. Six credits.

**SC/NATS 1840 6.0 Science and the Environment.** This course provides a simplified description of the complex interactions and balances controlling the biosphere. The ways in which pollutants are produced and dispersed in the environment are discussed, together with their effects and how they are monitored and controlled. Three lecture hours, one tutorial hour. Two terms. Six credits.

*Degree credit exclusions:* SC/NATS 1640 6.0, SC/NATS 1770 6.0.

**SC/NATS 1850 6.0 Biomedical Ethics and the New Genetics.** Recent developments in genetics and biotechnology are rapidly generating both medical breakthroughs and societal dilemmas. This course provides an understanding of basic principles of molecular biology and human genetics, and examines societal and bioethical implications of the new genetics. Three lecture/seminar hours. Two terms. Six credits.

*Cross-listed to:* SC/BC 1850 6.0.

*Degree credit exclusions:* SC/BC 1850 6.0, SC/NATS 1680 6.0, SC/NATS 1800J 6.0A, SC/NATS 1800J 6.0B. Not open to students enrolled in Biology programs.

**SC/NATS 2700 9.0 Science: Fundamental Ideas and Social Dimensions.** A study of key ideas in the physical, life, earth, space and environmental sciences necessary to teach the Ontario elementary science curriculum. The social dimensions of science and technology, especially relating to Canada, are integrated with the scientific material. Four lecture hours per week, 12 two-hour laboratory sessions. Two terms. Nine credits.

*Prerequisite:* Normally open only to those coregistered in the Faculty of Education Primary/Junior or Junior/Intermediate programs or planning to apply for those programs.

*Note:* This course fulfills the Faculty of Arts General Education requirement.

## Philosophy – Arts

### Department Office:

S428R Ross, 416-736-5113

Fax: 416-736-5114

### Chair of the Department:

J. N. Hattiangadi

### Distinguished Research Professors:

L.B. Code, I.C. Jarvie

### Professors:

A.W. Cragg, M.A. Gilbert, L.J.M. Green,

J.N. Hattiangadi, M. Schabas

### Professors Emeriti:

J. Agassi, M.B. Bakan, G.F. Cowley,

W.E. Creery, C.D. MacNiven,

J.D. McFarland, N. Mackenzie,

R.E. Simpson

### Associate Professors:

S. Dimock, L. Jacobs, D.M. Johnson,

D.A. Jopling, A. MacKenzie, E. Morera,

G. Naddaf, J. Pelham E. Thompson

### Assistant Professors:

H. Jackman, R. Myers

"Philosophy is to be studied, not for the sake of any definite answers to its questions, since no definite answers can, as a rule, be known to be true, but rather for the sake of the questions themselves; because these questions enlarge our conception of what is possible, enrich our intellectual imagination and diminish the dogmatic assurance which closes the mind against speculation; but above all because, through the greatness of the universe which philosophy contemplates, the mind also is rendered great, and becomes capable of that union with the universe which constitutes its highest good." (Bertrand Russell)

## Courses in Philosophy

*Note:* Not all courses will be offered in any given year. The department's mini-calendar, generally available in early March, should be consulted for specific offerings and detailed course descriptions.

Courses in Philosophy have three class hours a week unless otherwise specified. All 2000-level courses are introductory and require no previous knowledge of philosophy. For specific requirements of degree programs offered by this department, please consult the Faculty of Arts "Programs of Study" section.

*Note:* Honours BA majors are strongly urged to take PHIL 2010 3.0, PHIL 2015 3.0, PHIL 2020 3.0, PHIL 2025 3.0 and PHIL 2100 3.0. All majors should consult the Undergraduate Program Director concerning course selection and design of individual programs.

*Note:* For a list of Atkinson courses which are degree credit exclusions, students should consult the degree credit exclusion/equivalent tables in the Lecture Schedule or the departmental/divisional supplemental calendars.

## 1000-Level Courses

**AS/PHIL 1000 6.0 Introduction to Philosophy.** A full-year introduction to the basic issues and classic writers in the Western philosophical tradition. Areas such as ethics, metaphysics, theory of knowledge, and logic are surveyed by examining the writings of philosophers such as Plato, Aristotle, Descartes, Berkeley, Hume as well as more modern writers.

*Cross-listed to:* AK/PHIL 1000 6.0.

*Degree credit exclusion:* AK/PHIL 1400 6.0.

### AS/PHIL 1100 3.0 The Meaning of Life.

This course explores a number of fundamental practical philosophical questions: What is the meaning of (my) life? What is happiness and how can I achieve it? What is wisdom? What is death and what does it mean to me?

*Cross-listed to:* AK/PHIL 1100 3.0.

## 2000-Level Courses

**AS/PHIL 2010 3.0 Origins of Western Philosophy.** The ancient Greek philosophers are the origin of modern Western thought. How did they construe reality, knowledge and humankind's relation to the world? Philosophers such as Heraclitus, Parmenides, Zeno and Democritus will be explored.

*Cross-listed to:* AK/PHIL 2010 3.0.

### AS/PHIL 2015 3.0 Plato and Aristotle.

Plato and Aristotle are the pillars of Western Philosophy. Practically all modern thought has its roots in their work. This course examines their writings and philosophy.

**AS/PHIL 2020 3.0 Reason, God and the Mind.** The works of Descartes, Spinoza and Leibniz are crucial building blocks of our contemporary understanding of the world. This course examines their work.

**AS/PHIL 2025 3.0 Experience, World and the Self.** Locke, Berkeley and Hume manifested an approach to philosophy that emphasized sense experience and the development of all knowledge from it. This course explores this tradition and its impact on our current world view.

*Cross-listed to: AK/PHIL 2025 3.0.*

**AS/PHIL 2035 3.0 Asian Philosophical Traditions.** This course is an introduction to the major philosophical traditions of India and China.

**AS/PHIL 2050 6.0 Philosophy of Law.**

A. Crime and Punishment: What is the criminal law for? What should be prohibited and why? What excuses allowed? B. The concept of law: What is a law? What is a legal system? Positivism, realism and Natural Law theories.

*Cross-listed to: AK/PHIL 2050 6.0.*

*Degree credit exclusion: AK/PHIL 3530 6.0.*

**AS/PHIL 2060 3.0 Social and Political Philosophy.** This course examines several theories of social justice including utilitarianism, social contract theory and natural rights. How do we distinguish between right and wrong? Good and evil?

*Cross-listed to: AK/PHIL 2060 3.0.*

**AS/PHIL 2070 3.0 Introductory Ethics.** This course provides a basic introduction to the three main branches of moral theory. Normative, descriptive and theoretical ethics will be examined in order to develop a comprehensive ethical system.

*Cross-listed to: AK/PHIL 2070 3.0.*

**AS/PHIL 2075 3.0 Introduction to Applied Ethics.** This course introduces students to the application of ethical theory to controversial public issues such as abortion, affirmative action and euthanasia, among others.

**AS/PHIL 2080 3.0 Perception, Knowledge and Causality.** This course provides an introduction to philosophical discussion about what exists, or what is most real, the subject of metaphysics, and what we can truly know about such things. What are the most basic things and how do they interact with each other?

*Cross-listed to: AK/PHIL 2080 3.0.*

**AS/PHIL 2090 3.0 Philosophy of Religion.** Can we prove God's existence or must we experience God directly? Is faith opposed to reason? Are miracles and revelations really possible? Do a mystic's claims count as knowledge?

*Cross-listed to: AK/PHIL 2090 3.0.*

**AS/PHIL 2100 3.0 Introduction to Logic.** Logic, in the philosophical tradition, is the study of what makes arguments valid. That is, it aims to distinguish correct reasoning from faulty reasoning. Modern symbolic logic begins this project by giving two complementary analyses of validity. This course presents the basic elements of modern symbolic logic for the beginning student.

**AS/PHIL 2110 3.0 Truth, Theory and Superstition.** There are diverse views on how to improve one's understanding or to do research, even in the case of science. This

course investigates the possibility of a method of science and also recent contributions to its theory.

*Cross-listed to: AK/PHIL 2110 3.0.*

**AS/PHIL 2120 3.0 Existentialism.** This course is an introduction to some of the central themes of existentialism, for example, the individual, being, the absurd, freedom, moral choice. These themes are explored in the work of philosophers such as Kierkegaard, Nietzsche, Camus, Sartre, de Beauvoir.

**AS/PHIL 2130 3.0 Philosophy of Art and Literature.** Is truth relevant to art? What connections are there between art and morality? Are aesthetic judgments purely subjective or is there an objective basis for them? What is the artist's role in society?

*Cross-listed to: AK/PHIL 2130 3.0.*

**AS/PHIL 2150 3.0 Introduction to the Philosophy of Education.** Since we disagree about values, can we educate children morally without indoctrinating them? Are sociology and developmental psychology relevant to this problem? How is it connected with issues in scientific, sexual, religious and aesthetic education?

*Cross-listed to: AK/PHIL 2150 3.0.*

**AS/PHIL 2160 3.0 Mind, Brain and Self.** An introduction to metaphysical issues about the mind. What is the nature of the mind and what is its relation to the body? What is the self and what is it that makes one the same person over time? What is the nature of consciousness and what is its relation to the brain?

*Cross-listed to: AK/PHIL 2160 3.0.*

**AS/PHIL 2170 3.0 Freedom, Determinism and Responsibility.** An investigation of different concepts of freedom, arguments for free will and determinism, people's responsibility for their actions and how it is adjudicated, the justification of punishment and some related moral problems.

**AS/PHIL 2200 3.0 Critical Reasoning.** A systematic study of practical argument, the analysis of techniques, formal and informal fallacies, the relationship between arguing well and winning an argument. When is argument propaganda? Methods of identifying and undermining specious arguments will be explored and tried.

**AS/PHIL 2240 3.0 Philosophy and Psychology.** What concepts of mind underlie current research on mind in psychology and cognitive science? What methods are used to study it? How much can science tell us about our own subjectivity?

**AS/PHIL 2250 3.0 Philosophy of Gender and Sexuality.** An examination of some conceptual and normative questions about gender and the nature, forms and regulation of human sexuality.

*Cross-listed to: AK/PHIL 2250 3.0.*

**AS/PHIL 2500 3.0 Introduction to Feminist Philosophy.** This course is an introduction to core readings and concepts in feminist philosophy including, but not limited to, essentialism vs. non-essentialism systemic and overt sexism, and key philosophical writings in feminist philosophy.

*Cross-listed to: AK/PHIL 2500 3.0.*

**AS/PHIL 2990 3.0/2990 6.0 Special Topics.** In any given year an additional number of courses may be offered. Information concerning these will be available at the departmental office.

### 3000-Level Courses

**AS/PHIL 3020 3.0 Ethics.** An advanced course treating the major ethical theories in western thought.

*Prerequisite: At least one of the following: AS/PHIL 2050 6.0, AS/PHIL 2060 3.0, AS/PHIL 2070 3.0 or AS/PHIL 2075 3.0.*

**AS/PHIL 3030 3.0 Metaphysics.** Metaphysics concerns such issues as the nature of reality, the existence of contingent and necessary truths, universals, perception and the nature of the external world.

*Cross-listed to: AK/PHIL 3030 3.0.*

*Prerequisite: AS/PHIL 2080 3.0 or at least six credits in Philosophy.*

**AS/PHIL 3035 3.0 Knowledge and Reality.** Theories of knowledge, epistemology, are examined in relation to theories of reality. How does our perception of reality relate to our understanding of it? How can we come to know something is true or false?

*Prerequisite: AS/PHIL 2080 3.0 or at least six credits in Philosophy.*

**AS/PHIL 3040 3.0 Aesthetics.** An examination from a contemporary philosophical perspective of problems concerning aesthetic experience, the nature of art, the structure and properties of works of art, creativity and appreciation, reasons and standards in art criticism.

*Prerequisite: AS/PHIL 2130 3.0 or at least six credits in Philosophy.*

**AS/PHIL 3050 3.0 Business Ethics.** This course examines the role of ethics in private, public and voluntary sector economic activity, for example, the concept of a free market and the role of government regulation, governance issues, corporate social responsibility, ethics codes, globalization and cross-cultural codes and standards.

*Prerequisite: At least one of the following: AS/PHIL 2050 6.0, AS/PHIL 2060 3.0, AS/PHIL 2070 3.0 or AS/PHIL 2075 3.0.*

*Degree credit exclusions: AS/PHIL 3025 3.0 (prior to Fall/Winter 2000), AS/PHIL 4160 3.0 (prior to Fall/Winter 1988), AK/PHIL 3560 3.0.*

**AS/PHIL 3080 3.0 Philosophy of Kant.** "For the chief question is always simply this: what and how much can the understanding and reason know apart from all experience?" Kant's answer

revolutionized philosophy. It is given in the Critique of Pure Reason, which will be studied in detail.

*Prerequisites:* AS/PHIL 2020 3.0 and AS/PHIL 2025 3.0.

**AS/PHIL 3095 3.0 Philosophy of Religion.** How do theistic philosophies deal with the fact of evil? Is religious language and forms of knowing distinct from other forms? What are the moral and ethical issues inherent in religious propagation?

*Cross-listed to:* AK/PHIL 3095 3.0.

*Prerequisite:* AS/PHIL 2090 3.0 or at least six credits in Philosophy.

**AS/PHIL 3100 3.0 Classical Logic.** Classical logic is that well-established part of philosophical logic which is sometimes taken as the foundation for rationality, as well as mathematics. This course begins to explore foundational concepts in metalogic, such as the notion of a logical system and the rigorous definition of a proof. It explores the ideas of the soundness and completeness of a logical system and introduces the incompleteness of arithmetic.

*Prerequisite:* AS/PHIL 2100 3.0, or permission of the instructor.

**AS/PHIL 3101 3.0 Philosophy of Logic.** This course studies issues relating the study of symbolic logic to ordinary language, including the nature of truth, the nature of sentences vs. propositions, semantics for natural language (the Liar paradox, descriptions, reference, demonstratives) syntactical conceptions of inference vs. semantic conceptions.

*Prerequisite:* AS/PHIL 2100 3.0, or permission of the instructor.

**AS/PHIL 3105 3.0 Deviant Logics.** An exploration of several systems of non-standard logic including modal logic, many-valued logic, and relevance logic. The deductive structure, consistency and completeness of the systems will be explored.

*Prerequisite:* AS/PHIL 2100 3.0, or permission of the instructor.

**AS/PHIL 3110 3.0 Political Philosophy.** The major contemporary theories of moral justification applied to these two fundamental questions of politics and economics: Is a state (instead of anarchy) morally justified? Is private (instead of communal) property morally justified?

*Cross-listed to:* AK/PHIL 3110 3.0.

*Prerequisite:* At least one of the following: AS/PHIL 2050 6.0, AS/PHIL 2060 3.0, AS/PHIL 2070 3.0 or AS/PHIL 2075 3.0.

**AS/PHIL 3120 3.0 Early Existentialism.** A detailed study of the early existentialist thinkers such as Pascal and Kierkegaard. Emphasis is on their views concerning knowledge and faith, God and humankind, freedom and self-deception.

*Prerequisite:* AS/PHIL 2120 3.0.

**AS/PHIL 3125 3.0 Contemporary Existentialism.** The views of such recent philosophers as Sartre, Camus, Nietzsche and de Beauvoir have had a great impact on

contemporary society. This course will explore their views on self, freedom, action and personal relations.

*Cross-listed to:* AK/PHIL 3125 3.0.

*Prerequisite:* AS/PHIL 2120 3.0.

**AS/PHIL 3130 3.0 Philosophical Issues around Race and Ethnicity.** This course examines issues of race and ethnicity such as multiculturalism, social construction, toleration and IQ from the perspective of social and political philosophy and the philosophy of the social sciences.

*Prerequisite:* At least one of the following: AS/PHIL 2050 6.0, AS/PHIL 2060 3.0, AS/PHIL 2070 3.0 or AS/PHIL 2075 3.0.

*Degree credit exclusion:* AS/PHIL 3025 3.0 (prior to Fall/Winter 2000).

**AS/PHIL 3140 3.0 Russell and Logical Positivism.** The contribution of Bertrand Russell is extensive. This course examines his philosophy along with that of the early Wittgenstein and the Vienna Circle Positivists such as Carnap, Schlick and Ayer.

*Prerequisite:* At least six credits in philosophy.

**AS/PHIL 3145 3.0 Wittgenstein's Philosophical Investigations.** A critical examination of the philosophic writings of the later Wittgenstein through an examination of his most crucial work, The Philosophical Investigations.

*Prerequisite:* At least six credits in philosophy.

**AS/PHIL 3170 3.0 Philosophy of Science.** The philosophy of science explores the fundamental assumptions and methodologies of science, as well as examining its history. Topics to be discussed may include the nature of scientific theories, the problem of induction and theories of probability, the demarcation and growth of scientific knowledge.

*Prerequisite:* At least six credits in philosophy.

**AS/PHIL 3180 3.0 Conversations with African Philosophy.** This course examines the development of African philosophy in the 20th century. It focuses on the debates among African philosophers regarding the nature of philosophical problems, and studies the emergence of various schools of thought in ethics, epistemology and ontology.

**AS/PHIL 3200 3.0 Philosophy of Language.** This course provides an introduction to basic notions of the philosophy of language. Questions to be discussed may include: How is communication in language possible? What is a language? What makes words and phrases meaningful? What is truth?

*Cross-listed to:* AK/PHIL 3200 3.0.

*Prerequisite:* At least six credits successfully completed in Philosophy.

*Recommended:* AS/PHIL 2100 3.0.

**AS/PHIL 3220 3.0 Argumentation Theory.** Dispute and argument have been studied by philosophers since ancient times. This course examines the nature of dispute in the context of both the history of philosophy and modern research.

*Recommended:* AS/PHIL 2100 3.0.

**AS/PHIL 3260 3.0 Philosophical Foundations of Cognitive Science.** An introduction to philosophical issues in the foundations of cognitive science, an interdisciplinary field made up of psychology, neuroscience, computer science and artificial intelligence, linguistics and philosophy. The course covers the main philosophical issues and debates associated with this field.

*Cross-listed to:* AK/PHIL 3635 3.0.

*Prerequisite:* At least six credits in Philosophy including one of: AS/PHIL 2160 3.0 or AS/PHIL 2240 3.0.

*Degree credit exclusion:* AS/PHIL 3260 3.0.

**AS/PHIL 3265 3.0 Philosophy of Mind.** How can we understand the relation between mind and body? How do mental states get their meaning? What is consciousness? Other topics may be discussed, such as: human agency, self-knowledge, unity of self, rationality of emotion, language and mind.

*Prerequisite:* At least six credits in Philosophy including one of: AS/PHIL 2160 3.0 or AS/PHIL 2240 3.0.

*Degree credit exclusion:* AS/PHIL 3260 3.0 (prior to Fall/Winter 2000).

**AS/PHIL 3270 3.0 Philosophy of Social Science.** This course provides an introduction to central ideas in the philosophy of social science. Topics for discussion may include: the debate concerning naturalism in social science, human rationality, scientism and functionalism.

*Prerequisite:* At least six credits in Philosophy.

**AS/PHIL 3280 3.0 Mind and Nature: The Philosophy of Biology.** This course concerns philosophical issues arising from the life sciences, in particular evolutionary theory and neuroscience. Topics examined may include: What is it that makes something living? What does the Darwinian theory of evolution mean for the understanding of human nature? Are religion and the theory of evolution compatible or irreconcilable?

*Prerequisite:* At least six credits in Philosophy.

*Recommended:* At least one of AS/PHIL 2160 3.0 or AS/PHIL 2240 3.0.

**AS/PHIL 3500 6.0 Philosophy and Feminism.** This course studies the history of feminist philosophical thought about the place women are to occupy in a man's world, and examine some contemporary feminist writings on reason, morality, scientific methodology and/or political theory.

*Prerequisite:* At least six credits in Philosophy.



**AS/PHIL 3595 3.0 International Ethics.** This course examines the roll of norms in the analysis of international relations, in particular as they apply to foreign actor involvement in conflicts within states, thus, issues such as massive human rights violations, ethnic cleansing, genocide and the norms governing intervention by international, state and non-state actors. Extensive case study material is used rooted in the civil wars of the nineties.

*Cross-listed to: AK/PHIL 3595 3.0.*

*Prerequisites: At least three credits chosen from AS/PHIL 2050 6.0, AS/PHIL 2060 3.0, AS/PHIL 2070 3.0 or AS/PHIL 2075 3.0.*

**AS/PHIL 3600 3.0 Ancient Philosophy.** This course involves a careful reading from selected texts in ancient philosophy. Writings are drawn from the Pre-Socratics, Plato, Aristotle and others.

*Prerequisite: At least one of: AS/PHIL 2010 3.0 or AS/PHIL 2015 3.0.*

**AS/PHIL 3620 3.0 Empiricism and Rationalism.** The empiricists and Rationalists include such eminent philosophers as Hume, Descartes, Berkely and Locke, among others. This course examines selected readings from one or more representative of each tradition.

**AS/PHIL 3640 3.0 German Philosophy.** German philosophy has had a profound impact on Western philosophy. In this course philosophers such as Hegel and Hursserl. to mention but two, are examined in some detail.

*Cross-listed to: AK/PHIL 3640 3.0.*

*Prerequisite: At least six credits successfully completed in Philosophy.*

**AS/PHIL 3990 3.0/3990 6.0 Special Topics.** In any given year an additional number of courses may be offered. Information concerning these are available at the departmental office.

#### 4000-Level Courses

*Note: All 4000-level Philosophy courses have a general prerequisite of at least nine credits in philosophy. Please refer to the course descriptions for specific course prerequisites.*

**AS/PHIL 4000 3.0/4000 6.0 Directed Readings.** A full-year (or half-year course in either term) course of independent reading under the direction of a member of the faculty. This course is only considered when a student has completed all listed courses in the area of study. Agreement of the supervising faculty member must be obtained prior to registration.

*Prerequisite: 84 credits, at least 30 of which are in philosophy.*

*Degree credit exclusion AS/PHIL 4990 6.0.*

*Note: Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

*Note: All fourth year level courses are topics courses. Please consult the departmental annual mini-calendar for specifics.*

**AS/PHIL 4010 3.0/4010 6.0 Topics in Historical Philosophy.** An intensive examination of problems and historical issues in philosophy. Topics vary from year to year.

*Prerequisite: At least nine credits in Philosophy.*

**AS/PHIL 4020 3.0/4020 6.0 Topics in Medieval Philosophy.** A seminar course in medieval epistemology and metaphysics. Texts may include selections from St. Augustine, St. Anselm and St. Thomas.

*Prerequisite: At least nine credits in Philosophy.*

**AS/PHIL 4030 3.0/4030 6.0 Topics in Ancient Philosophy.** A seminar course in ancient epistemology and metaphysics. Texts may include *Selected Dialogues from Plato*, Aristotle's *Organon* and *Metaphysics*.

*Prerequisite: At least nine credits in Philosophy.*

**AS/PHIL 4040 3.0/4040 6.0 Topics in Contemporary Philosophy.** An intensive examination of problems and contemporary issues in philosophy. Topics vary from year to year.

*Prerequisite: At least nine credits in Philosophy.*

**AS/PHIL 4050 3.0/4050 6.0 Topics in the Philosophy of History.** The course discusses some of the central philosophical problems arising out of historical knowledge Truth, Objectivity, Facts, Explanation. The main emphasis will be on the controversy over "covering laws" and on that between Realists and Idealists.

*Prerequisite: At least nine credits in Philosophy.*

*Recommended: AS/PHIL 3270 3.0.*

**AS/PHIL 4070 3.0/4070 6.0 Topics in Moral Philosophy.** An intensive examination of particular problems in moral philosophy, or intensive studies of the writings of individual moral philosophers. Topics vary from year to year.

*Prerequisite: At least nine credits in Philosophy including at least three credits from the following: AS/PHIL 3020 3.0, AS/PHIL 3025 3.0, AS/PHIL 3050 3.0, AS/PHIL 3110 3.0 or AS/PHIL 3130 3.0.*

**AS/PHIL 4080 3.0/4080 6.0 Topics in the Philosophy of Mind.** A selection of the following topics are discussed: mind and body, thinking, intention, emotions, desires, motives, reasons, dispositions, memory, the unconscious and the concept of a person.

*Prerequisite: At least nine credits in Philosophy including AS/PHIL 3260 3.0.*

**AS/PHIL 4090 3.0/4090 6.0 Topics in Metaphysics.** An intensive investigation into issues concerning the nature of reality and existence. Focus is on selected issues or the work of particular metaphysicians. Topics vary from year to year.

*Prerequisite: At least nine credits in Philosophy including three credits from: AS/PHIL 3030 3.0 or AS/PHIL 3035 3.0.*

**AS/PHIL 4110 3.0/4110 6.0 Topics in the Philosophy of Science.** The course deals with situations in science and in the history of science that give rise to the basic problems of the philosophy of science. The role of observation in science. The criteria of truth in science.

*Prerequisite: At least nine credits in Philosophy.*

*Recommended: AS/PHIL 3170 3.0 or AS/PHIL 3270 3.0 or AS/PHIL 3280 3.0.*

**AS/PHIL 4120 3.0/4120 6.0 Topics in Existentialism.** An intensive study of selected works of such thinkers as Pascal, Kierkegaard and Sartre. Topics include idealism and realism, freedom, the self and others.

*Prerequisite: At least nine credits in Philosophy including one of: AS/PHIL 3120 3.0 or AS/PHIL 3125 3.0.*

**AS/PHIL 4130 3.0/4130 6.0 Topics in the Philosophy of Nature.** Topics in the history of concepts of nature in Western philosophy going back from Kant's *Critique of Judgment* to aspects of Greek thought and forward to Hegel's philosophy of nature and to contemporary conceptions, particularly systems theory.

*Prerequisite: At least nine credits in Philosophy.*

*Recommended: AS/PHIL 3170 3.0 or AS/PHIL 3270 3.0 or AS/PHIL 3280 3.0.*

**AS/PHIL 4140 3.0/4140 6.0 Topics in Aesthetics: Imitation and Representation in Art.** A critical examination of recent problems in aesthetics concerning the representative function of works of art. Specific topics include the semantic theory of representation; transcription, translation and the making of equivalent structures in art; picturing, symbolizing and artistic vision.

*Prerequisite: At least nine credits in Philosophy.*

*Recommended: AS/PHIL 3040 3.0.*

**AS/PHIL 4150 3.0/4150 6.0 Topics in Applied Ethics.** An in depth examination of issues in such areas and topics as: contemporary moral issues (e.g. abortion, euthanasia, pornography, human rights and poverty); business ethics (e.g. corporate social responsibility and cross cultural ethics codes); environmental ethics (e.g. sustainable development); morality and law; and punishment.

*Prerequisite: At least nine credits in Philosophy including at least three credits from the following: AS/PHIL 3020 3.0, AS/PHIL 3025 3.0, AS/PHIL 3050 3.0, AS/PHIL 3110 3.0 or AS/PHIL 3130 3.0.*

**AS/PHIL 4180 3.0/4180 6.0 Topics: Political Philosophy.** An intensive study of some selected normative and conceptual problems in contemporary political philosophy.

*Prerequisite: At least nine credits in Philosophy including at least three credits from the following: AS/PHIL 3020 3.0, AS/PHIL 3025 3.0, AS/PHIL 3050 3.0, AS/PHIL 3110 3.0 or AS/PHIL 3130 3.0.*



**AS/PHIL 4190 3.0/4190 6.0 Topics in the Philosophy of Law.** An advanced seminar on some contemporary theories of the nature of law and legal reasoning.

*Prerequisite:* AS/PHIL 2050 6.0 and at least three credits from the following: AS/PHIL 3020 3.0, AS/PHIL 3025 3.0, AS/PHIL 3050 3.0, AS/PHIL 3110 3.0 or AS/PHIL 3130 3.0.

*Integrated with:* GS/PHIL 5020E 3.0.

**AS/PHIL 4200 3.0/4200 6.0 Topics in Semantics.** The study of semantics is at the root of philosophical logic, as well as the philosophy of language and linguistics. This course studies a topic in this central area of philosophical inquiry.

*Prerequisite:* At least nine credits in Philosophy.

*Integrated with:* GS/PHIL 5320 3.0.

**AS/PHIL 4220 3.0/4220 6.0 Topics: Argumentation Theory.** An intensive examination of one or more theories of argument. These may include field theory, critical thinking and pragma-dialectic approaches.

*Prerequisite:* At least nine credits in Philosophy including AS/PHIL 3220 3.0.

**AS/PHIL 4230 3.0/4230 6.0 Topics: Epistemology.** Selected topics in the theory of knowledge are explored in depth.

*Prerequisite:* At least nine credits in Philosophy including three credits from: AS/PHIL 3030 3.0 or AS/PHIL 3035 3.0.

**AS/PHIL 4240 3.0/4240 6.0 Topics: Continental Philosophy.** An intensive investigation of the work of such writers as Husserl, Heidegger and Sartre as well as their offshoots and modern formulations.

*Prerequisite:* At least nine credits in Philosophy.

**AS/PHIL 4250 3.0/4250 6.0 Topics in the Philosophy of Film.** This course is concerned with the aesthetics and ontology of film as a form of art and human expression. Particular concentration varies from year to year.

*Prerequisite:* At least nine credits in Philosophy.

**AS/PHIL 4350 3.0/4350 6.0 Topics in the Philosophy of Language.** This course explores a topic in the philosophy of language. The topic will vary from year to year.

*Prerequisite:* At least nine credits in Philosophy including one of: AS/PHIL 3200 3.0 or AS/PHIL 2040 3.0 (prior to Fall/Winter 1999).

**AS/PHIL 4450 3.0/4450 6.0 Topics in Philosophical Logic.** This course provides an intensive examination of a selected area of philosophical logic. Topics will vary from year to year.

*Prerequisite:* At least nine credits in Philosophy including three credits chosen from: AS/PHIL 3100 3.0 or AS/PHIL 3105 3.0.

**AS/PHIL 4500 3.0/4500 6.0 Topics in Feminist Philosophy: Critique and Construct.** An intensive study of recent feminist writings in one or more of the following areas: aesthetics, epistemology, ethics, political philosophy,

philosophy of science, philosophy of the social sciences, theories of subjectivity, philosophy of language, theories of rationality.

*Prerequisite:* At least nine credits in Philosophy.

*Recommended:* AS/PHIL 3500 6.0.

## General Certificate in Practical Ethics

York University students may earn a General Certificate in Practical Ethics in addition to fulfilling the requirements for a Bachelors Degree. Practical Ethics is an exciting new area of multidisciplinary study and research which provides the opportunity to apply ethical concepts and principles to contemporary social issues. The courses offered as part of the General Certificate in Practical Ethics enable students to address questions of applied ethics and public policy in the fields of anthropology, economics, environmental studies, humanities, philosophy, political science, social science and sociology.

To qualify for the General Certificate in Practical Ethics, students must complete 24 credits and the cumulative Grade Point Average on these 24 credits must be at least 5.0.

Students must register for the Certificate and written approval of a member of the Advisory Group for the Certificate must be obtained. Such approval is conditional on the student submitting an acceptable written justification of their intended course selection. Equivalent courses must be approved by the coordinator. Students must indicate their intention to pursue the Certificate by completing an enrolment form available from the Philosophy Department.

For more information including degree requirements please refer to the Faculty of Arts "Programs of Study" section in this Calendar.

### Required Courses:

AS/PHIL 2070 3.0 Introductory Ethics.  
AS/PHIL 2075 3.0 Introduction to Applied Ethics.

### Designated Courses in Practical Ethics:

*Note: Some of the below courses have prerequisites, or may be limited to students with Honours standing and/or registered as majors in the respective department/division. For more information, please consult the departmental/divisional supplemental calendars.*

### Anthropology

AS/ANTH 3020 6.0 Race, "Racism" and Popular Culture.  
AS/ANTH 3080 6.0 Modes of Enablement: A Cultural Perspective on Physical Disability.  
AS/ANTH 3090 6.0 Gender, Science and Society.  
AS/ANTH 3160 6.0 Family and Kinship in Comparative Perspective.  
AS/ANTH 3230 6.0 Women, Culture and Society.  
AS/ANTH 3280 6.0 Psychiatric Anthropology and Social Stress.

AS/ANTH 3330 6.0 Health and Illness in Cross-Cultural Perspective.

AS/ANTH 3360 6.0 The Politics of Power.

AS/ANTH 3410 6.0 Ethnicity and Nationalism.

AS/ANTH 4020 3.0 Human Rights in Canada: Key Issues.

AS/ANTH 4030 6.0 Intercultural Training Skills.

### Economics

AS/ECON 4259 3.0 Health Economics.

AS/ECON 4309 3.0 Law and Economics.

AS/ECON 4379 3.0 Regulatory Economics.

AS/ECON 4399 3.0 Topics in Law and Economics.

### Environmental Studies

ENVS 2300 3.0 Foundations of Global Development, Peace and Justice.

ENVS 2400 3.0 Foundations of Environmental Policy and Action.

ENVS 3000 3.0 Environmental Ethics.

ENVS 3420 3.0 Environmental Law.

ENVS 3440 3.0 Resource Management.

ENVS 4140 3.0 Environmental Thought.

ENVS 4311 3.0 Global Justice and the Environment. (Cross-listed to: AS/POLS 4311 3.0)

ENVS 4410 3.0 Environmental Policy II.

### Humanities

AS/HUMA 1810 6.0 Good and Evil.

AS/HUMA 1820 6.0 Ideology and Morality.

AS/HUMA 2740 6.0 Film, Television and Society (cross-listed to: FA/FILM 2401 6.0).

AS/HUMA 2840 6.0 Perspectives on Contemporary Moral Issues.

AS/HUMA 3450 6.0 Queer Desire, Gay Representation.

AS/HUMA 3850 6.0 The Final Solution: Perspectives on the Holocaust.

AS/HUMA 3950 6.0 Gender and Morality: Feminist Challenges to the Tradition.

AS/HUMA 3960 6.0 Mothering and Motherhood.

AS/HUMA 3970 6.0 Science and Gender in Modern Western Society.

AS/HUMA 4225C 6.0 Eugenics in Cultural Context.

AS/HUMA 4890C 6.0 Women in Islamic Literatures.

### Philosophy

AS/PHIL 2050 6.0 Philosophy of Law.

AS/AK/PHIL 2060 3.0 Social and Political Philosophy.

AS/PHIL 2250 3.0 Philosophy of Gender and Sexuality. (Cross-listed to: AK/PHIL 225 3.0)

AS/PHIL 3020 3.0 Ethics.

AS/PHIL 3050 3.0 Business Ethics.

AS/AK/PHIL 3110 3.0 Political Philosophy.

AS/PHIL 3130 3.0 Philosophical Issues around Race and Ethnicity.

AS/PHIL 3220 3.0 Augmentation Theory.

AS/PHIL 3500 6.0 Philosophy and Feminism.

AS/PHIL 3595 3.0 International Ethics.

AS/PHIL 4070 3.0/4070 6.0 Topics in Moral Philosophy.

AS/PHIL 4150 3.0/4150 6.0 Topics in Applied Ethics.

## Political Science

AS/POLS 2040 6.0 Introduction to Political Theory.  
 AS/POLS 3065 3.0 Political Culture of Race and Racism.  
 AS/POLS 3230 3.0 Global Issues in Foreign Policy.  
 AS/POLS 3280 3.0 Canada and World Affairs.  
 AS/POLS 3450 3.0 Women and Politics. (Cross-listed to: AS/SOSC 3170 3.0, AS/AK/GLWMST 3516 3.0)  
 AS/POLS 3455 3.0 Topics in Women and Politics. (cross-listed to: SOSC 3175 3.0)  
 AS/POLS 3600 3.0 Public Law I: The Constitution and the Courts in Canada.  
 AS/POLS 3605 3.0 Public Law II: The Charter of Rights and Freedoms and the Limits of Public Administration.  
 AS/POLS 4000 3.0 Politics of Cyberspace.  
 AS/POLS 4004A 3.0 The Philosophy of Toleration.  
 AS/POLS 4045 3.0 Ecology, Politics and Philosophy.  
 AS/POLS 4125 3.0 Women and Current Public Policy Issues.  
 AS/POLS 4210 3.0 Peace Research.  
 AS/POLS 4311 3.0 Global Justice and the Environment. (Cross-listed to: ES/ENVS 4311 3.0)  
 AS/POLS 4440 3.0 Human Rights in Europe and Canada.  
 AS/POLS 4605 3.0 Ethical Politics.  
 AS/POLS 4620 3.0 Health Policy in Canada.  
 AS/POLS 4625 3.0 Issues in Canadian Health Policy.  
 AS/POLS 4810 3.0 Social Justice and Political Activists.

## Social Science

AS/SOSC 2350 6.0 Law and Society.  
 AS/SOSC 3030 6.0 Crime and Punishment in Selected Western Societies.  
 AS/SOSC 3050 6.0 Methodological and Ethical Issues.  
 AS/SOSC 3090 6.0 Medicine and North American Society in Historical Perspective.  
 AS/SOSC 3111 3.0/3110 6.0 Special Topics in Health and Society.  
 AS/SOSC 3170 3.0 Women and Politics. (Cross-listed to: AS/POLS 3450 3.0, AS/AK/GLWMST 3516 3.0)  
 AS/SOSC 3175 3.0 Topics in Women and Politics. (Cross-listed to: AS/POLS 3455 3.0)  
 AS/SOSC 3300 6.0 The Mass Media, Culture and Society: The Canadian Case.  
 AS/SOSC 3360 6.0 Canadian Charter of Rights and Freedoms.  
 AS/SOSC 3370 6.0 Social Justice and Law.  
 AS/SOSC 4050 6.0 Animals and People.  
 AS/SOSC 4350 6.0 Law and Society Seminar.

## Sociology

AS/SOCI 3420 6.0 Population and Society.  
 AS/SOCI 3430 6.0 Race and Ethnic Relations in Western Society.  
 AS/SOCI 3450 6.0 Sociology of "Race" and Racism.  
 AS/SOCI 3630 6.0 Sociology of Education.  
 AS/SOCI 3660 6.0 Sociology of the Family.  
 AS/SOCI 3690 6.0 Sociology of Gender.  
 AS/SOCI 3710 6.0 Environmental Sociology.

AS/SOCI 3810 6.0 Sociology of Crime and Delinquency.  
 AS/SOCI 4072 3.0 Sociology of Human Reproduction.  
 AS/SOCI 4300 3.0 Sociology of Health Care Delivery.  
 AS/SOCI 4420 6.0 Contemporary Issues of North American Native Peoples.  
 AS/SOCI 4430 3.0 Canada and Refugees.  
 AS/SOCI 4440 6.0 Race, Minorities and the Legal Order.  
 AS/SOCI 4810 6.0 Women and the Criminal Justice System.

## Physics and Astronomy – Pure and Applied Science

### Department Office:

128 Petrie, 416-736- 5249

### Chair of the Department:

M. Horbatsch

### Distinguished Research Professor Emeritus:

R.W. Nicholls

### Professors:

N. Bartel, J.J. Caldwell, W.H. Cannon, J.W. Darewych, M.M. De Robertis, H.S. Freedhoff, E.A. Hessels, M. Horbatsch, K.A. Innanen, R.G. Koniuk, J.G. Laframboise, M.L. McCall, J.R. Miller, R.H. Prince, A.D. Stauffer, W.A. van Wijngaarden

### Professors Emeriti:

A.I. Carswell, C.H. Dugan, W.R. Frisken, G.R. Hébert, R.P. McEachran

### Associate Professors:

S. Bhadra, S. Jeffers, R.A. Koehler, A. Kumarakrishnan, S. Menary, F.J. Morgan

### Associate Professor Emeritus:

J.A. Burt

### Senior Lecturers:

P.A. Delaney, S. Jerzak, S.B. Joshi

Physics and Astronomy are quantitative sciences which employ the scientific method of observation, experiment and systemization of the results of experiment. Their objectives are to seek to understand the ways in which the most fundamental or elementary systems in nature really operate.

Courses in the Department of Physics and Astronomy cover basic elements of the major topics delineated during the last 200 years in these rapidly developing fields of knowledge. There are certain required courses (see the program of study requirements in Science section V) which expose each student to the broad spectrum of physical phenomena and in an elementary way to the techniques of the theoretical physicist or astronomer in numerical analysis and modelling and of the experimental physicist or observational astronomer in measurement, observation and the apparatus of experiment. In developing programs of 3000- and 4000-level courses, students may concentrate their interests around experimental physics, theoretical physics, or astronomy and astrophysics. There are opportunities to develop Honours Double Major and Honours Major/Minor programs with

other disciplines in the Faculty of Pure and Applied Science or in other Faculties.

The department offers Specialized Honours applied science streams in Applied Physics and in Space and Communication Sciences, developed to meet the needs of rapidly expanding technologies in these fields. The requirements for these streams are found in Science section V.

A brochure giving detailed course descriptions and typical program prescriptions for all programs involving Physics and Astronomy is available on request from the department office.

## Courses in Physics and Astronomy

Admission to any course beyond the 1000 level requires consultation with a member of the departmental admissions committee. Normally, entry to courses at the 3000 and 4000 levels requires successful completion of all lower-level courses that are required for degree programs in Physics and Astronomy. The prerequisites and corequisites stated for certain courses indicate the standard of background preparation deemed necessary for those not taking Bachelor or Honours Physics and Astronomy programs. The course director should be consulted by potential entrants who have not completed the normal entry requirements of the department.

Unless otherwise specified, courses whose numbers end in "6.0" (i.e. six-credit courses) have three lecture hours per week for two terms when taught in a Fall/Winter Session; those whose numbers end in "3.0" (i.e. three-credit courses) have three lecture hours per week for one term. Courses offered in the evening and/or in a Summer Session may have different formats and scheduling, though they will be equivalent in credit value.

**SC/PHYS 1010 6.0 Physics.** Topics include linear, rotational and oscillatory motion; Newtonian mechanics; electrostatics; magnetostatics; electric current and induction; heat; geometrical and physical optics and sound. Differential and integral calculus and vector algebra are used. This course covers fewer topics than SC/PHYS 1410 6.0, but covers them in greater depth. It should be taken by all those likely to enrol in 2000-level PHYS courses. Three lecture hours per week in the first term, two lecture hours per week in the second term; three laboratory hours in alternate weeks in both terms; one tutorial hour each week in both terms.

*Prerequisite:* OAC Physics or SC/PHYS 1510 4.0.

*Corequisite(s):* AS/SC/MATH 1013 3.0 and AS/SC/MATH 1014 3.0 and AS/SC/MATH 1025 3.0, or AS/SC/MATH 1505 6.0, or equivalents.

*Degree credit exclusions:* SC/PHYS 1410 6.0, AK/PHSI 2000 6.0.

**SC/PHYS 1070 3.0 Astronomy.** An introduction to astronomy for science majors. The course gives an overview of basic astronomical knowledge from the solar system to the edge of the Milky Way and basic astronomical concepts from white dwarfs to black holes.

*Prerequisite:* OAC Physics or SC/PHYS 1510 4.0.

*Prerequisite or corequisite: AS/SC/MATH 1013 3.0 or AS/SC/MATH 1505 6.0 or equivalent.*

*Degree credit exclusion: SC/PHYS 1070 4.0.*

**SC/PHYS 1410 6.0 Physical Science.** Topics include kinematics, dynamics, momentum and energy for linear and rotational motion; elementary kinetic theory and thermodynamics; static and current electricity; waves and physical and geometrical optics, elements of modern physics. Recommended for students unlikely to enrol in 2000-level PHYS courses. Three lecture hours per week in the first term, two lecture hours per week in the second term; three laboratory hours in alternate weeks in both terms; one tutorial hour each week in both terms.

*Prerequisite: OAC Physics or SC/PHYS 1510 4.0. This is a calculus-based course making use of elementary differential and integral calculus. While not mandatory, a first-year mathematics course involving calculus, such as AS/SC/MATH 1013 3.0/1014 3.0 or AS/SC/MATH 1505 6.0, is normally taken concurrently. Coregistration in AS/SC/MATH 1515 3.0 or AS/SC/MATH 1505 6.0 is strongly recommended for students lacking OAC Calculus.*

*Degree credit exclusions: SC/PHYS 1010 6.0, AK/PHSI 2000 6.0.*

**SC/PHYS 1510 4.0 Introduction to Physics.**

An introductory course for students lacking adequate preparation for SC/PHYS 1010 6.0 or SC/PHYS 1410 6.0. Topics involve Newton's laws applied to linear and angular motion, force, inertia, torque, impulse, momentum, centre of mass, work, energy, oscillatory motion, geometric optics (including lenses and mirrors). No calculus is used, but vectors are used extensively. Three lecture hours per week, a laboratory session alternating weekly with a tutorial session. One term.

*Prerequisite: Ontario Grade 12 Advanced Mathematics.*

*Degree credit exclusions: AK/PHSI 1500 3.0. May not be taken by any student who has taken or is currently taking another university course in physics.*

**SC/PHYS 2010 3.0 Classical Mechanics.**

Translational motion of point masses and rigid bodies under the influence of both constant and varying forces (e.g. fluid drag, surface gravity on Earth). Rotational motion of point masses and rigid bodies, including cyclical motion and precession.

*Prerequisites: SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0; AS/SC/MATH 1014 3.0 or equivalent; AS/SC/MATH 1025 3.0 or equivalent.*

*Corequisite: AS/SC/MATH 2015 3.0.*

**SC/PHYS 2020 3.0 Electricity and Magnetism.** The elements of electric and magnetic fields are developed together with DC and AC circuit theory and an introduction to electromagnetic waves.

*Prerequisites: SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0; AS/SC/MATH 1025 3.0 or equivalent; AS/SC/MATH 2015 3.0.*

**SC/PHYS 2030 3.0 Symbolic Computation in Physics.** The Maple symbolic computing environment is used to solve problems from classical and modern physics, fluids, heat and electromagnetics at a level comparable to and above that of SC/PHYS 1010 6.0 or SC/PHYS 1410 6.0.

*Prerequisites: SC/PHYS 1010 6.0 or SC/PHYS 1410 6.0; AK/AS/SC/COSC 1540 3.0; AS/SC/MATH 1014 3.0 or equivalent.*

*Corequisite: AS/SC/MATH 2015 3.0 or equivalent.*

**SC/PHYS 2040 3.0 Special Relativity and Modern Physics.** This course introduces the two pillars of modern physics - the special theory of relativity and quantum mechanics. The relativistic concepts of space, time and energy are derived from first principles. The quantum nature of radiation and matter is introduced.

*Prerequisites: SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0; AS/SC/MATH 1025 3.0 or equivalent; AS/SC/MATH 2015 3.0.*

*Prerequisites or corequisites: It is strongly recommended that SC/PHYS 2010 3.0 and SC/PHYS 2020 3.0 be taken in the same year as this course.*

**SC/PHYS 2060 3.0 Optics and Spectra.** An introductory course in optics covering the following topics: wave nature of light, reflection, refraction, spherical mirrors and lenses, interference, diffraction, polarization, introduction to lasers.

*Prerequisites: SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0; AS/SC/MATH 1014 3.0 or equivalent; AS/SC/MATH 1025 3.0 or equivalent.*

**SC/PHYS 2070 3.0 Galaxies and the Universe.**

An introduction to the structure, evolution and origin of galaxies, aggregates of galaxies and the universe as a whole. Frontier topics such as quasars, the great attractor, the cosmic web, gravitational lensing, primeval galaxies and black holes are included.

*Prerequisite: SC/PHYS 1070 3.0, or SC/NATS 1740 6.0 and permission of the instructor.*

**SC/PHYS 2211 1.0 Experimental Physics.**

An introductory course for second-year students. The course consists of 10 experiments covering basic concepts of electromagnetism. Normally three laboratory hours per week. One term. One credit.

*Prerequisite: SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0.*

*Corequisite(s): At least one of SC/PHYS 2010 3.0, SC/PHYS 2020 3.0, SC/PHYS 2060 3.0.*

*Degree credit exclusions: SC/PHYS 2210 2.0, SC/PHYS 2210 1.0, SC/PHYS 2210A 1.0.*

**SC/PHYS 2212 1.0 Experimental Physics.**

An introductory laboratory course based on lasers and modern optics. Includes different experiments than those completed in SC/PHYS 2211 1.0. Normally three laboratory hours per week. One term. One credit.

*Prerequisite: SC/PHYS 2211 1.0.*

*Corequisite(s): At least one of SC/PHYS 2010 3.0, SC/PHYS 2020 3.0, SC/PHYS 2060 3.0.*

*Degree credit exclusions: SC/PHYS 2210 2.0, SC/PHYS 2210M 1.0.*

**SC/PHYS 3001 1.0 Organization and Management Seminar in Space and Communication Sciences.**

A seminar course taught by guest speakers from industry, government and the University. Content changes from year to year, but includes such topics as professional ethics, communications regulations, space law, space science policy, project management, privacy and security issues in computing. One lecture hour in alternate weeks. Two terms.

*Cross-listed to: SC/COSC 3001 1.0, SC/EATS 3001 1.0.*

*Prerequisite: Eligibility to proceed in the Specialized Honours stream in Space and Communication Sciences beyond the 2000-level requirements, or permission of the course director.*

*Degree credit exclusions: SC/COSC 3001 1.0, AS/SC/COSC 3002 1.0, SC/EATS 3001 1.0.*

**SC/PHYS 3010 3.0 Classical Mechanics.**

Intermediate classical mechanics, including dynamics of particles and systems of particles. Lagrange's equations and Hamilton's equations.

*Prerequisites: SC/PHYS 2010 3.0; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.*

**SC/PHYS 3020 3.0 Electromagnetics I.**

Vector calculus; electrostatic and magnetostatic fields, derived from charge and current distributions studied in vacuum and in material media.

*Prerequisites: SC/PHYS 2020 3.0; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.*

*Prerequisite or corequisite: AS/SC/MATH 3271 3.0.*

**SC/PHYS 3030 3.0 Statistical and Thermal Physics.**

Statistical mechanics of systems of large numbers of elements. Probability, ensembles, fluctuations. Applications: spin magnetism, electrons in metals, radiation, specific heats of solids. Transport theory.

*Prerequisites: SC/PHYS 2010 3.0; SC/PHYS 2020 3.0.*

*Degree credit exclusions: SC/CHEM 4012 3.0, SC/CHEM 4090 3.0.*

**SC/PHYS 3040 6.0 Modern Physics.** Survey of the basis of contemporary physics: introduction to quantum theory of light, atoms, molecules, solids, nuclei, elementary wave mechanics and elementary particles.

*Prerequisites: SC/PHYS 2010 3.0; SC/PHYS 2020 3.0; SC/PHYS 2040 3.0; SC/PHYS 2211 1.0; AS/SC/AK/MATH 2270 3.0.*

**SC/PHYS 3050 3.0 Electronics I.**

Introduction to physical electronics including DC and AC circuit theory and network analysis; bandpass filters; introduction to the p-n junction and semiconductor devices: diodes,

DC power supplies, transistors, analysis and design of basic amplifiers, operational amplifiers. With laboratory exercises. Two lecture hours, three laboratory hours. One term.

*Prerequisites:* SC/PHYS 2020 3.0; SC/PHYS 2211 1.0.

**SC/PHYS 3070 3.0 Planets and Planetary Systems.** Survey of planetary astrophysics. Specific emphases vary, but an overview of planetary observations and current knowledge concerning the atmospheres and interiors of planets and the formation and evolution of planets and planetary systems is presented. Normally offered in alternate years.

*Prerequisite:* At least one of SC/PHYS 1070 3.0, SC/EATS 1010 6.0 (or both SC/EATS 1010 3.0 and SC/EATS 1011 3.0), SC/EATS 2030 3.0; or permission of the instructor.

*Prerequisite(s) or corequisite:* AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0; or permission of the instructor.

**SC/PHYS 3080 3.0 Atmospheric Radiation and Thermodynamics.** Applications of basic thermodynamic principles to dry and moist atmospheric situations. Aerological diagrams illustrating vertical structure. Solar (short wave) and terrestrial (long wave) radiation with respect to absorption and scattering processes involving atmospheric atoms, molecules, aerosol particles and clouds.

*Cross-listed to:* SC/EATS 3030 3.0.

*Prerequisites:* SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.

*Degree credit exclusion:* SC/EATS 3030 3.0.

**SC/PHYS 3090 3.0/3090 6.0 Special Topics.** Supervised study, lectures, seminars and laboratory work on specific topics of contemporary interest.

**SC/PHYS 3150 3.0 Electronics II.** The concept of feedback and its use in circuits employing operational amplifiers; analysis/design of such circuits, including amplifiers, filters, oscillators, pulse generators; digital concepts and logic circuits with applications to data manipulation (computers) and storage. Laboratory exercises and project. Two lecture hours, three laboratory hours. One term.

*Prerequisite:* SC/PHYS 3050 3.0.

**SC/PHYS 3210 6.0 Experimental Physics.** Experiments are performed in fluid mechanics, electromagnetism, optics, atomic and nuclear physics. Error analysis of the data and detailed write-ups of at least nine experiments are required. Students are required to present a seminar on a research topic to the class. One lecture/seminar hour per week, open laboratory hours. Two terms.

*Prerequisites:* SC/PHYS 2211 1.0; SC/PHYS 2212 1.0.

*Corequisite:* SC/PHYS 3040 6.0.

*Degree credit exclusion:* SC/PHYS 3220 3.0.

**SC/PHYS 3220 3.0 Experimental Physics.**

A three-credit version of SC/PHYS 3210 6.0 comprising a selection of the experiments in the latter course. These are chosen in consultation with the course director to reflect the student's particular program and background. One lecture/seminar hour per week, open laboratory hours. One term or equivalent.

*Prerequisite:* SC/PHYS 2211 1.0; SC/PHYS 2212 1.0 is recommended.

*Corequisite:* SC/PHYS 3040 6.0.

*Degree credit exclusion:* SC/PHYS 3210 6.0.

**SC/PHYS 3250 3.0 Introduction to Space Communications.** The course covers all aspects of communications between spacecraft and ground stations. Topics include orbits, perturbations and launching methods, the essential characteristics and components of satellites, interplanetary spacecraft and ground stations, transmission, reception and link equations and access to a satellite.

*Prerequisite:* SC/PHYS 2020 3.0.

*Prerequisite or corequisite:* SC/PHYS 3050 3.0.

**SC/PHYS 3280 3.0 Physics of the Space Environment.** An introduction to the physical processes of the upper atmosphere, the ionosphere, the magnetosphere and the heliosphere, and the interactions that occur with space vehicles that traverse these regions of space.

*Cross-listed to:* SC/EATS 3280 3.0.

*Prerequisites:* SC/PHYS 2020 3.0; SC/PHYS 2040 3.0.

*Degree credit exclusion:* SC/EATS 3280 3.0.

**SC/PHYS 4001 6.0 Space and Communication Sciences Workshop.** This course is intended to allow the student to carry out the development of a specific space project, under the supervision of a faculty member, a government scientist or an industrial associate. The equivalent of nine laboratory hours per week for two terms.

*Cross-listed to:* SC/COSC 4001 6.0, SC/EATS 4001 6.0.

*Prerequisite:* Satisfactory completion of the 3000-level courses in the Space and Communication Sciences core.

*Degree credit exclusions:* SC/COSC 4001 6.0, SC/EATS 4001 6.0.

**SC/PHYS 4010 3.0 Quantum Mechanics.** (formerly half of SC/PHYS 4010 6.0 — before 2000-2001) Physical concepts and mathematical foundations of quantum mechanics. Emphasis on approximation methods, treatment of angular momentum, spin and their couplings. Introduction to relativistic quantum mechanics and scattering theory.

*Prerequisite:* SC/PHYS 3040 6.0.

*Prerequisite(s) or corequisite(s):* SC/PHYS 3020 3.0; AS/SC/MATH 3271 3.0.

*Degree credit exclusion:* SC/PHYS 4010 6.0.

**SC/PHYS 4011 3.0 Atomic and Molecular Physics.** (formerly half of SC/PHYS 4010 6.0 — before 2000-2001) Application of quantum mechanics to atomic and molecular structure. One-electron systems, many electron atoms, Hartree-Fock approximation, fine structure, hyperfine structure, atom-laser interactions.

*Prerequisite:* SC/PHYS 4010 3.0.

*Degree credit exclusion:* SC/PHYS 4010 6.0.

**SC/PHYS 4020 3.0 Electromagnetics II.** Time-dependent electric and magnetic fields, Maxwell's differential equations in linear, isotropic, homogeneous conductors and dielectrics; the radiation and transmission of electromagnetic energy; relativistic transformation; scalar diffraction theory.

*Prerequisites:* SC/PHYS 3020 3.0; AS/SC/MATH 3271 3.0.

**SC/PHYS 4040 3.0 Nuclear and Fundamental Particle Physics.** The properties of fundamental particles (quarks and leptons), and the forces between them, are studied. Topics include the interactions of particles with matter, symmetry principles and experimental techniques. Properties of nuclear matter (e.g. radioactive decays, fission, fusion) are also investigated.

*Prerequisites:* SC/PHYS 3010 3.0; SC/PHYS 3020 3.0; SC/PHYS 4010 6.0 or SC/PHYS 4010 3.0.

**SC/PHYS 4050 3.0 Solid State Physics.** The structural, mechanical, thermal, electrical and magnetic properties of crystalline solids are studied.

*Prerequisites:* SC/PHYS 3030 3.0; SC/PHYS 4010 6.0 or SC/PHYS 4010 3.0.

**SC/PHYS 4060 3.0 Time Series and Spectral Analysis.** Treatment of discrete sampled data by linear optimum Wiener filtering, minimum error energy deconvolution, auto-correlation and spectral density estimation, discrete Fourier transforms and frequency domain filtering and the Fast Fourier Transform algorithm.

*Cross-listed to:* SC/EATS 4020 3.0, AS/SC/MATH 4830 3.0.

*Prerequisites:* AK/AS/SC/COSC 1540 3.0 or equivalent FORTRAN programming experience; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.

*Degree credit exclusions:* AK/AS/SC/COSC 4242 3.0, AK/AS/SC/COSC 4451 3.0, SC/EATS 4020 3.0, AS/SC/MATH 4130B 3.0, AS/SC/MATH 4830 3.0, AS/SC/MATH 4930C 3.0.

**SC/PHYS 4070 3.0 Stars and Nebulae.** The astrophysics of radiating matter in the universe. The course covers radiation processes, radiative transfer, interstellar matter, stellar atmospheres and stellar interiors.

*Prerequisites:* SC/PHYS 1070 3.0; SC/PHYS 3030 3.0; SC/PHYS 3040 6.0; AS/SC/MATH 3271 3.0.

**SC/PHYS 4100 3.0/4100 6.0 Special Topics.** Supervised study, lectures, seminars and laboratory work on specific topics of contemporary interest.

**SC/PHYS 4110 3.0 Dynamics of Space Vehicles.** The dynamics of spacecraft in the near Earth and deep space environments, including the classical theory of orbits, the effects of perturbations on satellite orbits, rocket propulsion, orbital manoeuvres and satellite attitude control.

*Prerequisites:* SC/PHYS 2010 3.0 or SC/EATS 2470 4.0 or SC/EATS 2470 3.0; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0; AS/SC/MATH 3271 3.0 is strongly recommended.

**SC/PHYS 4120 3.0 Gas and Fluid Dynamics.** Fundamental laws; conservation of mass, momentum and energy; vortex motion; incompressible, compressible and viscous flows; turbulent flow; surface waves.

*Cross-listed to:* AS/SC/MATH 4470 3.0.

*Prerequisites:* SC/PHYS 2010 3.0 or SC/EATS 2470 4.0 or SC/EATS 2470 3.0; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.

*Degree credit exclusion:* AS/SC/MATH 4470 3.0.

**SC/PHYS 4210 3.0 Experimental Physics.** Advanced experiments in physics related to topics in solid state physics, optical and microwave spectroscopy, and nuclear physics. Six open laboratory hours. One term.

*Prerequisites:* SC/PHYS 3210 6.0; registration in an Honours program in Physics and Astronomy.

*Note:* Students whose programs require six credits of 4000-level experimental physics take both SC/PHYS 4210 3.0 and SC/PHYS 4211 3.0, including different experiments as determined by the course coordinator.

**SC/PHYS 4211 3.0 Experimental Physics.** Advanced experiments in physics related to topics in solid state physics, optical and microwave spectroscopy, and nuclear physics. Six open laboratory hours. One term.

*Prerequisites:* SC/PHYS 3210 6.0; registration in an Honours program in Physics and Astronomy.

*Note:* Students whose programs require six credits of 4000-level experimental physics take both SC/PHYS 4210 3.0 and SC/PHYS 4211 3.0, including different experiments as determined by the course coordinator.

**SC/PHYS 4250 3.0 Signal and Communications Theory.** Signal representation using orthogonal functions; Fourier series and transforms as applied to signals; ideal and physically realizable filters; the sampling theorem; definitions and characterizations of energy, power and their spectral densities; the modulation theorem; various kinds of modulation and bandwidth requirements.

*Prerequisites:* SC/PHYS 3250 3.0; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.

*Degree credit exclusion:* AS/SC/MATH 4130B 3.0.

**SC/PHYS 4270 4.0 Astronomical Techniques.** (formerly SC/PHYS 4270 3.0 — before 1999-2000) An introduction to modern astronomical instrumentation, observational methods, data analysis and numerical methods. In addition to weekly lectures, the course provides students

with hands-on experience with both observational and theoretical techniques of modern astronomy. Normally offered in alternate years. One and one-half lecture hours per week, several laboratory exercises. Two terms.

*Prerequisites:* SC/PHYS 1070 3.0; AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0.

*Degree credit exclusion:* SC/PHYS 4270 3.0.

**SC/PHYS 4310 3.0 Physics or Astronomy Project.** A supervised research endeavour, either theoretical or experimental, in physics or astronomy. The project follows consultation with a faculty member who agrees to supervise.

*Prerequisite:* Open to students in the final year of the Physics, Applied Physics, or Astronomy stream of an Honours Physics and Astronomy program.

**SC/PHYS 4410 3.0 Space Geodynamics.** The dynamical behaviour of the Earth from space measurements. Included are the external gravity field of the Earth, orbital dynamics of artificial satellites, satellite geoid, internal figure of the Earth, rotation of the Earth and its measurement by space techniques. Normally offered in alternate years.

*Cross-listed to:* SC/EATS 4250 3.0.

*Prerequisite(s) or corequisite(s):* SC/EATS 3020 3.0; AS/SC/MATH 3241 3.0 or AK/AS/SC/COSC 3121 3.0; AS/SC/MATH 3271 3.0.

*Degree credit exclusion:* SC/EATS 4250 3.0.

**SC/PHYS 4450 3.0 Spacecraft Systems.** The course begins with a presentation of the basic principles underlying the design of spacecraft systems to meet the requirements of an orbital environment. It then develops the concepts and current approaches to spacecraft electrical, mechanical and thermal design.

*Prerequisites:* SC/PHYS 3050 3.0; SC/PHYS 3250 3.0; SC/PHYS 3280 3.0 or SC/EATS 3280 3.0.

**SC/PHYS 4550 3.0 Introduction to Control Systems.** An introduction to the analysis and design of automatic control systems for linear time-invariant systems.

*Prerequisites:* AS/SC/MATH 2015 3.0; AS/SC/AK/MATH 2270 3.0; AS/SC/AK/MATH 3410 3.0 strongly recommended.

## Political Science – Arts

### Department Office:

S672 Ross, 416-736-5265

### Chair of Department:

I. Bakker

### Distinguished Research Professor:

L.V. Panitch

### Professors:

A. Acharya, R. Albritton, A. Bayefsky, D. Dewitt, E. Dosman, F.J. Fletcher, M.B. Frolic, S. Gill, J. Hellman, S. Hellman, D. Leyton-Brown, K. McRoberts, L. North, J. Saul, O. Subtelny, R. Whitaker

### Professors Emeriti:

N. Black, R. Cornell, R. Cox, M.D. Goldrick, R.W. Grant, H. Kaplan, H. Simmons, G. Szabowski, D. Verney, N. Wood

### Associate Professors:

G. Albo, I. Bakker, S. Bell, H.G. Betz, G. Comninel, A. Denholm Crosby, R.J. Drummond, S. Forsyth, C.I. Greene, A. Horowitz, R. MacDermid, D. McNally, E. Morera, A. Mukherjee-Reed, S. Newman, J. Newton, J. Nitzan, S. Plekhanov, R.A. Rudolph, D. Shugarman, M. Thomas, S.L. Whitworth

### Assistant Professors:

M. Bernard, Dobrowolsky, S. Henders, D. Mutimer, L. Sossin, G.W. Swanson

### Contractually-Limited Appointments:

R. Bazowski, A. Porter

The Political Science Department offers courses in five fields: Canadian Politics, Comparative Politics, International Relations, Political Theory, and Empirical Theory and Methodology. Students may select from a full range of courses in each field, starting with broad survey courses at the 2000-level and advancing to more specialized courses at the 3000-level and Honours BA seminars at the 4000-level. Typical offerings in Canadian politics deal with federal-provincial relations, public law, municipal government and political parties. Comparative politics courses are of two sorts: some examine the political systems of such countries as the United States, the former Soviet Union and China, while others explore entire regions like Latin America, Western Europe and Southern Africa. Offerings in international relations focus particularly upon Canadian foreign and defence policy, strategic studies, international political economy, international organizations and the foreign policies of the superpowers. In political theory, courses provide a detailed survey of the history of Western political thought and take up the concerns of such modern political philosophers as Hannah Arendt, Albert Camus, C.B. Macpherson and John Rawls. Finally, courses in empirical theory and methodology introduce students to statistics and computer applications in the social sciences and examine more sophisticated questions of political analysis and the philosophy of inquiry. The department offers a 4000-level Honours BA Colloquium open by invitation to advanced students. Students interested in independent study may enrol in individual reading and research courses at the upper level. The department participates, as well, in a substantial number of interdisciplinary programs within the Faculty of Arts, including, for example, Canadian Studies, Urban Studies, and Law and Society.

*Note:* The department also offers Specialized Honours BA degree programs in Public Policy and Administration and Global Political Studies. For details, please consult the Faculty of Arts "Programs of Study" section.

## Courses in Political Science

*Note:* For specific requirements of programs offered by this department, please consult the Faculty of Arts "Programs of Study" section.

Courses at the 2000 and 3000 level normally have two lecture hours and one tutorial hour a week. Courses at the 4000 level normally have two consecutive seminar hours a week. Majors registered for the BA degree may, with the permission of the department, count toward the major requirement a maximum of 15 credits in Political Science taken outside the department. Honours BA majors may count toward the major requirement a maximum of 21 such credits taken outside of the department.

*Note: A more detailed description of course offerings is contained in the department's supplementary calendar, which is available from the Political Science Department, S672 Ross; students should consult the supplementary calendar prior to registration.*

*Note: Not all courses will necessarily be offered in any given year; consult the department's supplementary calendar for details of courses to be offered.*

*Note: For a list of Atkinson courses which are degree credit exclusions, students should consult the degree credit exclusion/equivalent tables in the Lecture Schedule.*

## I. 1000-Level Courses

*Note: Open to all students. Should be taken in their first or second year (i.e. before successfully completing 54 credits).*

**AS/POLS 1000 6.0 Introduction to Politics: Exploring the Democratic Experience.** This course introduces students to the central concepts of political science. The emphasis is on how individuals participate in politics and on how politics may be changed. Among the topics to be considered are the following: nationalism and nation building, liberalism, communism, fascism, power, war, imperialism and dependency, international organization, interdependence and integration. Material from municipal, provincial, national and international levels of politics will be included as well as material on current policy issues, such as recent changes in the Ontario Human Rights Code.

*Cross-listed to: AK/POLS 2410 6.0.*

**AS/POLS 1090 6.0 Introduction to Business Government and Society.** This course presents an overview of the Canadian and international business environment with particular emphasis on government regulation of business and the social pressures governments respond to when regulating business.

## II. 2000-Level Courses

*Prerequisites: Open to all students. No prerequisites.*

**AS/POLS 2040 6.0 Introduction to Political Theory.** An introduction to the history of political theory with a focus upon selected theorists in the western tradition.

*Note: This course is a prerequisite for most 3000 and 4000-level courses in political theory.*

**AS/POLS 2100 6.0 Introduction to Canadian Government and Politics.** The process of Canadian government is studied through an examination of the institutional framework and socio-economic context of Canadian politics. Topics include federalism, public policy and administration, parties and elections, interest groups, and the structures and operation of parliamentary government.

*Cross-listed to: AK/POLS 3420 6.0.*

*Degree credit exclusion: AS/POLS 2610 6.0.*

*Note: This course is a prerequisite for most 3000- and 4000-level courses in Canadian politics.*

**AS/POLS 2210 6.0 Introduction to International Relations.** A descriptive and analytical examination of international politics from the development of the nation-state system to the present time.

*Note: This course is a prerequisite for most 3000- and 4000-level courses in international relations.*

**AS/POLS 2300 6.0 Introduction to Empirical Theory.** Introduction to the issues, procedures and theories associated with the empirical approach to the study of politics. The course includes an examination of the origins and critical debates of political science and a survey of the major empirical theories of politics.

*Note: This course is a prerequisite for most 3000- and 4000-level courses in empirical theory and methodology.*

**AS/POLS 2510 6.0 Introduction to Comparative Politics.** An introduction to the comparative study of political systems, institutions and processes. The second half of the course examines in detail the government and politics of specific countries and regions.

*Note: This course is a prerequisite for most 3000- and 4000-level courses in comparative world politics.*

**AS/POLS 2610 6.0 Public Policy and Administration.** Focusing on Canadian government at the federal, provincial and local levels, this course assesses the relations between administrative structures and public policy development.

*Note: This course is a prerequisite for most 3000- and 4000-level courses in Canadian politics.*

*Degree credit exclusion: AS/POLS 2100 6.0.*

## III. 3000-Level Courses

*Prerequisites: Most 3000-level courses have a specified 2000-level course as a prerequisite (see the course descriptions for 2000-level courses above, and always consult the departmental supplementary calendar). Third- and fourth-year students (i.e. those who have successfully completed at least 54 or more credits) in other departments may, if they are otherwise adequately prepared, take a 3000-level Political Science course without having satisfied the departmental requirements.*

*Written permission of the course director must be obtained and submitted to S672 Ross prior to enrolment.*

**AS/POLS 3000 3.0/3000 6.0 Special Topics.** Various sections of this course focus on specific themes of general interest to undergraduate students. Students should consult the department's supplementary calendar for sections which may be announced at a later date.

**AS/POLS 3001 3.0/3001 6.0 Selected Topics in Comparative Politics.** Various sections of this course focus on specific themes in Comparative Politics. Students should consult the Department of Political Science supplementary calendar for specific section offerings.

**AS/POLS 3002 3.0/3002 6.0 Selected Topics in Canadian Politics.** Various sections of this course focus on specific themes in Canadian Politics. Students should consult the Department of Political Science supplementary calendar for specific section offerings.

**AS/POLS 3003 3.0/3003 6.0 Selected Topics in International Relations.** Various sections of this course focus on specific themes in International Relations. Students should consult the Department of Political Science supplementary calendar for specific section offerings.

**AS/POLS 3004 3.0/3004 6.0 Selected Topics in Political Theory.** Various sections of this course focus on specific themes in Political Theory. Students should consult the Department of Political Science supplementary calendar for specific section offerings.

**AS/POLS 3005 3.0/3005 6.0 Selected Topics in Empirical Theory and Methodology.** Various sections of this course focus on specific themes in Empirical Theory and Methodology. Students should consult the Department of Political Science supplementary calendar for specific section offerings.

**AS/POLS 3010 3.0 Ancient and Medieval Political Thought.** An interdisciplinary approach to selected thinkers within their historical context. Readings are drawn from among the works of the Sophists and Epicurians, Plato, Aristotle, Cicero, St. Augustine and St. Thomas Aquinas.

*Prerequisite: AS/POLS 2040 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3010 6.0.*

**AS/POLS 3020 3.0 Political Thought of the Renaissance and Reformation.** An interdisciplinary approach to selected thinkers of the Renaissance and Reformation within their historical contexts. Primary sources are drawn from the works of Machiavelli, Bodin, Hooker, Luther and Calvin among others.

*Prerequisite: AS/POLS 2040 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3010 6.0.*

**AS/POLS 3025 3.0 17th-Century Political Thought.** An interdisciplinary approach to early modern political thought emphasizing the contributions of selected European theorists. Readings are drawn from the works of the English Levellers, Hobbes, Locke and Spinoza among others.

*Prerequisite:* AS/POLS 2040 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3020 6.0.

**AS/POLS 3030 3.0 18th-Century Political Thought.** An interdisciplinary approach to the political thought of the 18th century through a survey of such authors as Vico, Montesquieu, Rousseau, Hume, Smith, Burke and Kant.

*Prerequisite:* AS/POLS 2040 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3020 6.0.

**AS/POLS 3040 6.0 Currents in Modern Political Theory.** This course analyzes the political theories or the political implications of the theories of major philosophers and social theorists from Kant to Foucault. Studies include Kant, Hegel, Marx, Nietzsche, Weber, Freud and Foucault.

*Degree credit exclusions:* AS/POLS 3035 3.0, AS/POLS 3040 3.0, AS/POLS 3045 3.0.

**AS/POLS 3065 3.0: Political Culture of Race and Racism.** This course analyses the political, economic and cultural development of "race" and "racism" in political discourse. Attention is given to categories such as "Eurocentric" and "the West". We deal with the historical development of "identity politics" versus "political correctness" debates.

*Degree credit exclusion:* AS/POLS 3000B 3.0 (Fall/Winter 1997).

**AS/POLS 3070 3.0 Psychology and Politics.**

This course involves the use of personality concepts in contemporary political thought. After outlining some psychological theories, starting with Freud, the focus is on selected problems: ideology, freedom and the law, community and utopia, leadership and biography, democratic participation, totalitarianism and conservatism.

*Prerequisite:* AS/POLS 2040 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3070 6.0.

**AS/POLS 3075 3.0 Law, Justice and Jurisprudence.** This course deals with the theories and principles of law and justice which underlie legal systems, with an emphasis on how these theories and principles impact on the political process. Readings draw from a variety of classical and contemporary sources.

*Prerequisite:* Any second-year political science course or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3130 6.0.

**AS/POLS 3080 3.0 American Political Thought.** A study of the beliefs, values and expectations characteristic of American political culture. Readings from the leading political, psychological and social thinkers in American history.

*Prerequisite:* AS/POLS 2040 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3080 6.0.

**AS/POLS 3100 3.0 The Politics of Communication and Culture in Canada.**

This course is organized around the assumption that patterns of communication and culture are central elements in any political system. It examines the principles and theories underlying communications and cultural practices, policy and regulation in Canada, with particular attention to the role of the state and the private sector in shaping the nature of political and cultural discourse in Canada.

**AS/POLS 3110 3.0 The Process of Urban Politics I: Institutions and Power.** An examination of the political systems of major metropolitan areas in Canada, including the following topics: the structure and operation of municipal government; the role of cities in national and provincial governments; city elections and parties; and political aspects of urban planning.

*Prerequisite:* Any second-year political science course or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3110 6.0.

**AS/POLS 3115 3.0 The Process of Urban Politics II: Social Justice and Urban Ecology.**

An examination of the important issues confronting urban governments in Canada and the forces impacting responses to these issues. Issues include redevelopment, social housing and the environment; forces impacting responses include the economy, social culture, ideology and social movements.

*Prerequisite:* Any second-year political science course or permission of the instructor.

*Recommended:* AS/POLS 3110 3.0.

*Degree credit exclusion:* AS/POLS 3110 6.0.

**AS/POLS 3120 3.0 The Politics of French Canada.**

The purpose of this course is to provide a systematic introduction to the political life of Quebec, as well as relations between Quebec and the rest of Canada. It seeks to apply and evaluate major theoretical propositions about nationalism and independence movements, ethnic and class relations, intergovernmental conflict, economic and social change, and social movements and political parties.

*Prerequisite:* AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3120 6.0.

**AS/POLS 3125 3.0 The Canadian Political Economy.**

An exploration of the rich tradition of Canadian political economy through a survey of the traditional as well as emerging approaches and issues. The classical political economy writers, including the pioneering staples school, are examined, as well as more recent writers. Critiques and explanations of political economists — old and new — highlight the elements of past and current Canadian political and economic development.

*Prerequisite:* AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3000A 3.0.

**AS/POLS 3140 3.0 Political Economy of Labour in Canada.** An analysis of the role organized labour has played in the political economy of Canada. The course traces the interaction of labour, business and government and focuses on the contemporary struggle of labour as it confronts the corporate state.

*Prerequisite:* Any second-year political science course or permission of the instructor.

*Degree credit exclusions:* AS/POLS 3140 6.0, AS/SOSC 3280 6.0.

**AS/POLS 3145 3.0 Government and Business in Canada.**

This course describes the role of market forces and corporate institutions in shaping Canada's political economy and the attempt to control or regulate the corporate sector.

*Prerequisite:* AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3000B 3.0.

*Cross-listed to:* AK/POLS 3209L 3.0.

**AS/POLS 3150 3.0 Political Parties in Canada.**

An intensive examination of the origins and development of political parties in Canada, including the three major parties and smaller parties which have arisen from time to time at the federal and provincial levels.

*Cross-listed to:* AK/POLS 3209K 3.0.

*Prerequisite:* Any second-year political science course or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3150 6.0.

**AS/POLS 3155 3.0 Election Campaigns in Canada.**

An intensive examination of political science studies of elections, voter decision-making, campaigns and campaign strategies in Canada.

*Cross-listed to:* AK/POLS 3209H 3.0.

*Prerequisite:* Any second-year political science course or permission of the instructor.

*Recommended:* AS/POLS 3150 3.0.

*Degree credit exclusion:* AS/POLS 3150 6.0.

**AS/POLS 3160 6.0 Issues in Canadian Constitutional Law.**

An introduction to the politics of Canadian constitutional law. The course examines such issues as judicial review, the division of powers, civil liberties, emergency powers and constitutional reform to demonstrate the link between law and fundamental issues of politics.

*Prerequisite:* AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.

**AS/POLS 3165 6.0 Problems in Canadian Business Law.**

This course describes the legal rules that govern the conduct of business in Canada and samples the extensive normative commentary on these issues. Students also develop their capacity to present written arguments reflecting their own views on the law.

*Cross-listed to:* AS/SOSC 3165 6.0.

*Prerequisite:* None.



*Degree credit exclusions: AS/ECON 4500 3.0, AS/ECON 4510 3.0.*

**AS/POLS 3170 3.0 Provincial Politics in Canada.** This course familiarizes students with various issues surrounding the organization of politics in the provinces. The course covers both contemporary and historical political developments in provincial governing structures and processes.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0, or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3170 6.0.*

**AS/POLS 3175 3.0 Ontario Provincial Politics.** An analysis of Ontario provincial politics. The course focuses on substantive problems of Ontario provincial politics and on formal and informal institutions of Ontario's government in the context of the Canadian federal system.

*Prerequisite: Any second-year political science course or permission of the instructor.*

*Recommended: AS/POLS 2100 6.0 or AS/POLS 2610 6.0.*

*Degree credit exclusion: AS/POLS 3170 6.0.*

**AS/POLS 3180 3.0 Interest Groups in Canada.** This course deals with the politics of participation and representation. It examines the efforts of citizens and social movements and of corporations and economic interest groups to influence public policy. It deals with theoretical concepts of power, equality, fairness and balance, and with case studies of lobbying, community organization and the politics of dissent.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3180 6.0.*

**AS/POLS 3190 6.0 Public Administration.** This course examines the theory and practice of public administration and the machinery of government, with particular reference to Canada. It discusses who makes policy, how policy is developed and implemented, and how the "system" is controlled and evaluated.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

**AS/POLS 3200 3.0 Global Conflict and Security I.** This course acquaints students with issues surrounding conflict and security in global politics as it has evolved over the past three centuries. It examines the history and development of war from the medieval period to the era of "total war", and the main currents of thought on issues of war and peace.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

*Degree credit exclusions: AS/POLS 3200 6.0, AS/POLS 3210 6.0.*

**AS/POLS 3210 3.0: Global Conflict and Security II.** This course explores the issues surrounding different dimensions of conflict and security in the contemporary period. In its broadest sense, security can be understood not only in military, but also in political,

economic, cultural and social terms. Several specific themes will be examined in this course, including: national liberation struggles and the rise of protracted social conflicts, the ethics of war, gender and conflict, and the analytic attempts to define alternative conceptions of security.

*Prerequisites: AS/POLS 2210 6.0 and AS/POLS 3200 3.0 or permission of the instructor.*

*Degree credit exclusions: AS/POLS 3200 6.0, AS/POLS 3210 6.0.*

**AS/POLS 3220 3.0: Comparative Foreign Policy Analysis.** Examination of the value of cross-national comparisons by considering the conduct and sources of the contemporary foreign policies of at least two countries drawn from a list including the United States, China, Japan and Russia. Particular attention is devoted to the domestic forces with shape policy formulation and implementation.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3230 6.0.*

**AS/POLS 3230 3.0 Global Issues in Foreign Policy.** Increasingly, problems such as environmental degradation, sustainable development, the uses and effects of technology in financial, production and communication systems, human rights abuses, refugee and population movements, and militarization, require solutions that can only be realized within a system of multilateral cooperation. The purpose of this course is to introduce students to the foreign policy decision-making process in terms of these global issues.

*Prerequisites: AS/POLS 2210 6.0 and AS/POLS 3220 3.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3230 6.0.*

**AS/POLS 3235 3.0 Russia and the World: Issues in Contemporary Russian Foreign Policy.** This course, taught at the Institute of the USA and Canada, Russian Academy of Sciences, in Moscow, analyses ideas, interests, structures and processes which shape relations between Russia and other countries.

*Prerequisites: AS/POLS 2210 6.0 or AS/POLS 2510 6.0, or permission of the instructor.*

**AS/POLS 3240 3.0 Multilateralism I: Introduction to International Organization.** Multilateralism concerns the management of conflict and the building of cooperation among the variety of political entities and agents that enter the field of world politics and governance. The primary purpose of this course is to provide the student with a better understanding of the evolving role of international organization within the broader context of changing world politics and international law. Emphasis will be placed on the historical development of international organization.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3280 6.0.*

**AS/POLS 3250 3.0 Multilateralism II: Structures and Processes.** Multilateralism concerns the management of conflict and the building of cooperation among the variety of political entities and agents that enter the field of world politics and governance. The primary purpose of this course is to build upon the introduction provided in Political Science 3240 3.0 and examine actual structures, processes, activities and instruments of international organizations within and outside the UN Family.

*Prerequisites: AS/POLS 2210 6.0 and AS/POLS 3240 3.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3280 6.0.*

**AS/POLS 3260 6.0 War and Peace in the Middle East.** A study of the relations between Israel and its contiguous neighbours, including the historical origins of the current stalemate and an assessment of the various approaches to peacemaking in the area.

*Cross-listed to: AK/POLS 3209J 6.0.*

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

**AS/POLS 3270 3.0 Global Political Economy I: Theory and Approaches.** This course introduces the main theoretical perspectives (realism, liberalism, Marxism) and concepts (structure, power, hegemony, state, market etc.) of GPE and applies them in the identification of the main substructures of the global political economy (e.g. security, money and finance, production and trade) in the context of historical developments, especially since the 19th century.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3270 6.0.*

**AS/POLS 3275 3.0 Global Political Economy II: Issues and Problems Since 1945.** This course builds on the theoretical apparatus in AS/POLS 3270 3.0 to focus on problems and issues relating to the post-1945 GPE, for example, the globalization of production and associated migration of labour; global money and finance, underdevelopment and the debt crisis, the economic crisis of the 1970s and 1980s, and prospects for the 1990s and beyond; contemporary transformations such as the changes in Eastern Europe and the implications of the collapse of the USSR; longer-term problems such as ecology and economics, perennial issues such as global conflict and cooperation, e.g. involving the Group of Seven.

*Prerequisites: AS/POLS 2210 6.0 and AS/POLS 3270 3.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3270 6.0.*

**AS/POLS 3280 3.0 Canada and World Affairs.** This half course studies the impact of external developments on Canada and Canadians, and the role and behaviour of Canadian traditional state, foreign, and defense policy instruments, other governmental actors, and non-governmental organizations and forces in bilateral and multilateral contexts.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3240 6.0.*



**AS/POLS 3300 6.0 Statistics for Social Sciences.** This course provides a basic understanding of the statistical reasoning and fundamental statistical techniques frequently used to analyse social data. It introduces students to the uses of computers and statistics in the social sciences. It helps develop necessary critical skills to evaluate empirical research.

*Cross-listed to:* AS/SOCI 3030 6.0.

*Prerequisite:* AS/POLS 2300 6.0 or permission of the instructor.

*Recommended:* AS/SOCI 2030 6.0.

*Degree credit exclusions:* AS/ECON 2500 3.0, AS/GEOG 2420 3.0, AS/GEOG 3421 3.0, AS/KINE 2050 3.0, AS/KINE 3150 3.0 AS/MATH 1131 3.0, AS/MATH 3320 3.0, AS/MATH 2560 3.0, AS/MATH 2570 3.0, AS/PSYC 2020 6.0, AS/PSYC 2021 3.0, AS/PSYC 2022 3.0, or equivalent.

**AS/POLS 3405 3.0 Comparative Perspectives in Public Policy and Political Economy.** An examination of how capitalist states differ in their economic institutions and policy outputs. The economic, political and social factors that explain these differences are analyzed, and the main theoretical paradigms (the liberal-market, neo-institutional, and Marxist traditions) are explored. Policy areas to be examined include welfare states, labour market policy, the economic role of women, industrial policy, financial institutions and trade policy.

*Prerequisite:* AS/POLS 2510 6.0 or AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.

**AS/POLS 3425 3.0 Comparative Constitutional Law.** A comparison of the constitutional systems and jurisprudence of several countries with constitutional problems similar to those of Canada. Particular countries selected for comparison varies from year to year, but are selected from the following: the United States, the United Kingdom, France, Australia, India, Malaysia, Nigeria, South Africa, Germany and Switzerland.

*Degree credit exclusions:* AS/POLS 3525 3.0, AS/POLS 3130 6.0, AS/POLS 3540 3.0.

**AS/POLS 3450 3.0 Women and Politics.** This course examines women's political position in advanced capitalist countries. The focus is historical, theoretical and issue-oriented. Issues examined include the politics of racism, sexuality, reproduction, pornography within formal political structures and community organizing.

*Cross-listed to:* AS/AK/GL/WMST 3516 3.0, AS/SOSC 3170 3.0.

*Degree credit exclusions:* GL/POLS 4960E 6.0, GL/WMST 4960E 6.0.

**AS/POLS 3455 3.0 Topics in Women and Politics.** This course explores in greater depth one or two of the issues examined in AS/POLS 3450 3.0. Possible issues include women and employment, politics of reproduction, politics of racism, gender and international relations, feminist theory and so on.

*Cross-listed to:* AS/SOSC 3175 3.0, AS/AK/GL/WMST 3516 3.0.

*Prerequisite:* AS/POLS 3450 3.0 or AS/SOSC 3170 3.0 or AS/AK/GL/WMST 3517 3.0 or permission of the instructor.

*Degree credit exclusions:* AS/POLS 3450 6.0, AS/SOSC 3170 6.0.

**AS/POLS 3500 3.0 The Rise and Fall of Communism in Russia and Eastern Europe.** The course acquaints students with the development of the Soviet Political System after 1917 and its recent disintegration. Issues to be discussed include: the nature of the Russian Revolution; building socialism; the role of Lenin, Stalin and other leaders; the Communist party; Gorbachev and perestroika; the crises of socialism; and the current post-Soviet successor state.

*Degree credit exclusion:* AS/POLS 3500 6.0.

**AS/POLS 3502 3.0 Transforming Russia: The Burden of History and the Imperative of Change.** This course, taught at the Institute of the USA and Canada, Russian Academy of Sciences, in Moscow, deals with the key issues of Russia's post-communist reforms in a historical context, as the latest in a long series of efforts to modernize Russian society and political system.

*Prerequisite:* AS/POLS 2510 6.0 or permission of the instructor.

**AS/POLS 3503 3.0 Russia and Canada: Comparing the Two Societies.** This course, taught at the Institute of the USA and Canada, Russian Academy of Sciences, in Moscow, reviews issues in contemporary Russia politics through comparisons with Canada.

*Prerequisites:* AS/POLS 2100 6.0 or AS/POLS 2510 6.0 or permission of the instructor.

**AS/POLS 3510 3.0 Government and Politics in China.** This course examines the origins and development of the modern Chinese political system. Emphasis is on the role of Mao Zedong, the post-1949 period and the reform of Chinese socialism.

*Degree credit exclusion:* AS/POLS 3510 6.0.

*Prerequisite:* Any second-year political science course, or permission of the instructor.

**AS/POLS 3515 3.0 China and the World.** China's relationship with the outside world has been a dominant issue in its political development. This course focuses on this relationship in the post-1949 period, with emphasis on the recent "open door" policy and its impact on the Chinese political system.

*Degree credit exclusion:* AS/POLS 3510 6.0.

**AS/POLS 3530 3.0 West European Politics.** This course begins with an examination of the development of states and political institutions in West European democracies. It then examines recent trends in politics in Western Europe, including the rise and crisis of the welfare state.

*Degree credit exclusions:* AS/POLS 3410 6.0, AS/POLS 3415 3.0.

**AS/POLS 3540 3.0 American Government and Politics.** An analysis of the American system via examination of recent political events. Attention is given to the composition of the socio-political elite, the nature of mass influence in public policies and the operation of such major institutions as the congress, courts, presidency and political parties.

*Degree credit exclusions:* AS/POLS 3440 6.0, AS/POLS 3440 3.0.

**AS/POLS 3545 3.0 Freedom, Wealth and Equality: Society and Political Economy in the United States.** The purpose of this course is to provide students with a basic knowledge of US government and politics with the opportunity to apply that knowledge to the analysis of current issues in US politics, and to examine the relation between government and American society.

*Prerequisite:* AS/POLS 2510 6.0 or permission of the instructor.

*Recommended:* AS/POLS 3540 3.0.

*Degree credit exclusions:* AS/POLS 3440 6.0, AS/POLS 3445 3.0.

**AS/POLS 3550 3.0 The Politics of Central America.** This course focuses on 20th-century Central America to explore the social foundations of political stability and instability. In addition to examining the domestic politics of the region's nations, it looks at the international pressures that impinge on their evolution.

*Prerequisite:* AS/POLS 2510 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3550 6.0.

**AS/POLS 3555 3.0 The Politics of South America.** This course examines post-World War II experiences of dictatorship and democratization in Mexico and South America, in the light of the region's 19th-century legacy. It deals with the conflicts that have led to the establishment of repressive regimes and the processes that have paved the way toward political openings.

*Prerequisite:* AS/POLS 2510 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3550 6.0.

**AS/POLS 3560 6.0 Politics of the Third World.** An examination of the political issues, institutions and strategies for (and obstacles to) development, in the so-called developing areas. Although the course considers general themes, such as colonialism, social change, economic development etc., its primary focus is on current politics in independent sub-Saharan Africa and South Asia.

*Prerequisite:* AS/POLS 2510 6.0 or permission of the instructor.

**AS/POLS 3570 3.0 Africa: The Politics of Continental Crisis.** An examination of Africa's present crisis, identifying both the opportunities for, and the severe constraints upon, the political and economic transformation of selected African states, with

emphasis varying from year to year, on Ghana, Nigeria, Ivory Coast, Senegal, Tanzania, Kenya and Uganda.

*Prerequisite:* Any second-year political science course or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3570 6.0.

#### **AS/POLS 3590 3.0 Japan and World Order.**

An introduction to the post-war politics of Japan. Topics covered include the traditional origins of the Japanese political system, the influence of the America occupation, political institutions (including the Emperor, elected officials and the bureaucracy), linkages between state and society, linkages between state and economy, the Japanese production system (including labour relations), and Japan's emerging regional and global role.

*Prerequisite:* AS/POLS 2210 6.0 or AS/POLS 2510 6.0 or permission of the instructor.

#### **AS/POLS 3600 3.0 Public Law I: The Constitution and the Courts in Canada.**

The objective of this course is to examine constitutional laws and practices, judicial review of the division of powers, and the role of the courts and the legal profession in Canada. A strong emphasis is placed on the relationship between law, politics and public policy.

*Prerequisite:* AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3600 6.0.

#### **AS/POLS 3605 3.0 Public Law II: The Charter of Rights and Freedoms and the Limits of Public Administration.**

The objective of this course is to examine key provisions of the Canadian Charter of Rights and Freedoms as they have been interpreted by the courts. This includes freedoms of expression and association; right to life, liberty and security of the persons; equality rights and non-discrimination; and the rights of aboriginal peoples. In addition, a section of the course will be devoted to judicial review of public administration.

*Prerequisites:* AS/POLS 2100 6.0 or AS/POLS 2610 6.0 and AS/POLS 3600 3.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 3600 6.0.

#### **AS/POLS 3700 3.0 Political Economy of Industrial Democracies.**

This course provides an analysis of the political economy of the advanced capitalist democracies in the postwar period. The primary area of focus is Western Europe, but the subject matter may also include Japan and the USA.

*Prerequisite:* AS/POLS 2510 6.0 or permission of the instructor.

#### **AS/POLS 3710 3.0 The Political Economy of the Newly-Industrialized Countries.**

The course examines theoretical debates concerning the political economy of industrialization in post-colonial countries through examination of specific case studies.

*Prerequisite:* AS/POLS 2210 6.0 or AS/POLS 2510 6.0 or permission of the instructor.

#### **AS/POLS 3720 3.0 Post-Communist Transformations: Can East Become West?**

An examination of key problems of political and economic change in post-communist societies, especially Russia, including economic and political liberalization, the challenge of nationalism and democratization.

*Degree credit exclusion:* AS/POLS 3000D 3.0 (Fall/Winter 1995).

#### **AS/POLS 3790 6.0 Political Economy of Latin America and the Caribbean.**

This course critically examines the classical writings on imperialism, underdevelopment and dependency, as well as new theoretical attempts to conceptualize the new international division of labour and the problems of poverty, environmental degradation and unequal exchange.

*Cross-listed to:* AS/SOSC 3410 6.0.

*Degree credit exclusion:* AS/POLS 3290 6.0.

#### **AS/POLS 3800 3.0 Speed Politics.**

Speed is understood as the ideology and practice of postcontemporary society. This course constructs a political theory of speed by examining speed in select theoretical texts.

#### **AS/POLS 3990 3.0/3990 6.0 Supervised Reading and Research.**

Students in their third year may take independent, individually-supervised reading/research courses, either on a full-year or half-year basis, when the student and the course meet the requirements set out by the Faculty of Arts and those established by the department.

### **IV. 4000-Level Courses**

*Prerequisites:* 4000-level courses are advanced seminars for students in an Honours BA program (at least a 5.0 cumulative grade point average) who have successfully completed at least 84 credits. Students who meet these requirements must also have the stated prerequisite, (please check the current supplemental calendar) or written permission of the course director before enrolling.

#### **AS/POLS 4000 3.0/4000 6.0 Special Topics.**

Various sections of this course will focus on specific themes of general interest to undergraduate students. Students should consult the department's supplementary calendar for sections which may be announced at a later date.

#### **AS/POLS 4001 3.0/4001 6.0 Selected Topics in Comparative Politics.**

Various sections of this course focus on specific themes in Comparative Politics. Students should consult the Department of Political Science supplementary calendar for specific section offerings.

#### **AS/POLS 4002 3.0/4002 6.0 Selected Topics in Canadian Politics.**

Various sections of this course focus on specific themes in Canadian Politics. Students should consult the Department of Political Science supplementary calendar for specific section offerings.

#### **AS/POLS 4003 3.0/4003 6.0 Selected Topics in International Relations.**

Various sections of this course focus on specific themes in International Relations. Students should consult the Department of Political Science supplementary calendar for specific section offerings.

#### **AS/POLS 4004 3.0/4004 6.0 Selected Topics in Political Theory.**

Various sections of this course focus on specific themes in Political Theory. Students should consult the Department of Political Science supplementary calendar for specific section offerings.

#### **AS/POLS 4005 3.0/4005 6.0 Selected Topics in Empirical Theory and Methodology.**

Various sections of this course focus on specific themes in Empirical Theory and Methodology. Students should consult the Department of Political Science supplementary calendar for specific section offerings.

#### **AS/POLS 4010 3.0 Selected Problems in the History of Political Thought.**

A seminar examining a major theme or problem derived from the writings of one or more central figures in Western political theory.

*Prerequisite:* AS/POLS 2040 6.0 or permission of the instructor.

*Degree credit exclusion:* AS/POLS 4010 6.0.

*Integrated with:* GS/POLS 5000U 3.0.

#### **AS/POLS 4015 3.0 Theories of Justice.**

An exploration of theories of justice which are at the heart of contemporary debates in political theory. The course makes the student aware both of the complexity of notions of justice and of the fundamental conditions for just societies to exist.

*Prerequisite:* Any second-year political science course or permission of the instructor.

#### **AS/POLS 4020 3.0 Hegel's Philosophy of Right.**

An intensive textual study of Hegel's major political work.

*Prerequisite:* AS/POLS 2040 6.0 or permission of the instructor.

*Integrated with:* GS/POLS 5000U 3.0 and GS/SPT 6180 3.0.

#### **AS/POLS 4025 3.0 Freedom and Equality.**

Freedom and equality are two of the fundamental conditions for democracy and as such they provide the ethical basis for much of contemporary political theory. The course explores conflicting conceptions of freedom and equality, their interrelationship and the implications of contemporary developments in this important field of political morality.

*Prerequisite:* Any second-year political science course or permission of the instructor.

#### **AS/POLS 4030 3.0 Classical Political Theory.**

An analysis of a number of texts in classical political theory, focusing on primary texts rather than secondary works, relevant to Greek, Hellenistic and Roman politics.

*Prerequisite:* AS/POLS 2040 6.0 or permission of the instructor.

*Integrated with:* GS/POLS 5010 3.0.

**AS/POLS 4035 6.0 The Emergence of Modernity.** This course examines the emergence of modernity as a response to Enlightenment crisis. Focusing on conflicting conceptions of reason, values and emotional experience in the modern institutional context, we critically explore the modern bases of contemporary social and political life.

*Cross-listed to: AS/SOSC 4500 6.0.*

**AS/POLS 4040 3.0 Vico to Gramsci: Historicism and Social Science.** The primary focus of the course is to enquire into the theory of knowledge underlying the method of historicism and to consider its applicability in contemporary social science. It focuses on the thought of Vico and Gramsci and on other theorists associated with the historicist or hermeneutic tradition.

*Prerequisite: AS/POLS 2040 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5040 6.0 and GS/SPT 6390 6.0.*

**AS/POLS 4045 3.0 Ecology, Politics and Theory.** This course includes discussion on "deep" ecology, Marxian environmentalism, feminist ecology, social ecology, post-modern approaches, Heideggerian ecology and the approach to the analysis of the domination of nature in the Frankfurt School.

*Prerequisite: AS/POLS 2040 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5045 3.0.*

**AS/POLS 4050 6.0 Contemporary Approaches to the Rational Society.** An examination of how contemporary thinkers have sought to grapple with the extent to which people can fashion a rational social system, and what attributes are required by humans and society to bring such a system into being.

*Prerequisite: AS/POLS 2040 6.0 or permission of the course instructor.*

**AS/POLS 4055 3.0 The Idea of Democracy.** This seminar examines texts in contemporary democratic theory, focusing on debates pertaining to (a) capitalism and democracy versus socialism and democracy; (b) modern democratic political representation; (c) new models and strategies for the democratization of state and economy.

*Degree credit exclusion: AS/POLS 4000N 3.0.*

*Integrated with: GS/POLS 5055 3.0.*

**AS/POLS 4090 3.0 Classical Marxist Theory.** This course focuses primarily on the writings of Marx and Engels with some consideration of Marxism as it first developed as an ideology of mass parties in the context of the Second International.

*Prerequisite: AS/POLS 2040 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3090 6.0.*

*Integrated with: GS/POLS 5090 3.0.*

**AS/POLS 4091 3.0 Contemporary Marxist Theory.** This course explores some of the important theories put forward by Marxists in the 20th century including those of Lukacs, Marcuse

and Althusser. It also examines challenges to Marxist theory posed by feminism and post-structuralism.

*Degree credit exclusion: AS/POLS 3090 6.0.*

*Integrated with: GS/POLS 5091 3.0.*

**AS/POLS 4100 3.0 The Political Development of Canada.** A study of Canada in historical perspective employing theoretical perspectives from political development and related fields. Topics include political culture, economy, regionalism, ethnic politics, communications and evolution of political institutions.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4100 6.0.*

*Integrated with: GS/POLS 5100 3.0.*

**AS/POLS 4110 6.0 Canadian Urban Policy.** This course examines the influence of government policy on the development of cities and the characteristics of urban life. It provides a historical, institutional and theoretical framework for understanding and analyzing Canadian urban policy making and policy implementation.

*Cross-listed to: AS/SOSC 4720 6.0.*

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or AS/SOSC 2700 6.0 or AS/SOSC 2720 6.0 or permission of the instructor.*

**AS/POLS 4114 3.0 Topics in Canadian State Finance.** The relative invisibility of decision making around government spending and taxation as well as the general sentiment that "there is no alternative" to current approaches to fiscal crisis given the imperatives of the global political economy, will structure our consideration of Canadian public finance.

*Prerequisite: AS/POLS 2100 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusions: AS/POLS 4115 6.0, AS/POLS 4115 3.0.*

**AS/POLS 4115 6.0 The Political Economy of State Finance.** The course studies the major fiscal functions of the state, including allocation, distribution and stabilization, accumulation and legitimization. The second semester features a budget simulation where the task is to develop a federal budget from various political party perspectives.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusions: AS/POLS 4114 3.0, AS/POLS 4115 3.0, AS/POLS 4116 3.0.*

**AS/POLS 4120 3.0 Ontario and Quebec: The Political Economy of Interregional Conflict.** Interdisciplinary course exploring two interrelated themes: Ontario-Quebec economic and political relations, and comparative patterns of internal development. Topics include: sources of Quebec's economic disadvantage; development of provincial states and intergovernmental conflict; implications of Quebec's *indépendantisme* and Ontario's new economic vulnerability.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4120 6.0.*

*Integrated with: GS/POLS 5120 3.0.*

**AS/POLS 4125 3.0 Women and Current Policy Issues.** The course begins by evaluating selected feminist theories in the light of their ability to explain policy developments. Policy issues of the past decade are then examined, including prostitution, pornography, homosexual rights, sexual assault, abortion and reproductive technology.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

**AS/POLS 4135 3.0 The Politics of Aging.** An examination of the effect of population aging on politics and public policy in Canada.

*Prerequisite: AS/POLS 2100 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4000P 3.0 in Fall/Winter 1992.*

**AS/POLS 4145 3.0 Restructuring the Canadian State.** The course explores Canada and the shift to a neo-liberal state and citizenship rights, and the current economic and social policy challenges.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

**AS/POLS 4155 3.0 Politics of the Canadian Women's Movement.** This course examines the politics of the Canadian women's movement, emphasizing its historical and contemporary development. We examine the suffrage movement, the inter-war years, and the development of second wave feminism in light of Canada's unique political structures and current challenges to feminism.

*Cross-listed to: AS/AK/GL/WMST 4503 3.0, GL/POLS 4603 3.0.*

*Prerequisite: Successful completion of at least six credits in a 1000- or 2000-level Women's Studies course.*

*Integrated with: GS/POLS 5150 3.0 and GS/WMST 6901L 3.0.*

**AS/POLS 4160 3.0 The Political Economy of Regionalism.** This course adopts a political economy perspective to examine the nature and evolution of regionalism in Canada. The core of the course is devoted to the relationship between economic development strategies and regional disparities and political protest.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4160 6.0.*

*Integrated with: GS/POLS 5160 3.0.*

**AS/POLS 4165 3.0 Canadian Social Policy in Comparative Perspective.** The course analyzes the design and implementation of social policy in Canada, seen in the context of social policy development in other Western societies, including the United States and Western Europe.

*Degree credit exclusion: AS/POLS 4000T 3.0 (Fall/Winter 1996 and Fall/Winter 1997).*

*Integrated with: GS/POLS 5000Y 3.0.*

**AS/POLS 4170 3.0 The Politics of Security and Intelligence.** An examination of the nature of security and intelligence and its effect on policy making. Among topics studied will be disinformation, counter-intelligence strategies, internal security mechanisms, accountability, and the relation between security and intelligence, democracy and peace.

*Prerequisite: AS/POLS 2210 6.0 or AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

**AS/POLS 4175 6.0 Canadian Federalism in Comparative Perspective.** An examination of federalism in Canada: historical evolution, impact on public policy; constitutional and political frameworks; future directions. Comparison with other federations, especially those featuring multinational and linguistic divisions. General assessment of federalism as a political regime.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusions: AS/POLS 4130 3.0, AS/POLS 4580 3.0.*

**AS/POLS 4180 6.0 Politics and the Mass Media in Canada.** The political functions of the mass media in the Canadian system, and the application of normative and empirical theories about mass media to the Canadian context.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or AS/SOSC 2310 6.0 or permission of the instructor.*

**AS/POLS 4185 6.0 Culture and Communication.** This course explores contemporary issues of cultural theory and their application to cultural and communication policies in Canada.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or AS/SOSC 2310 6.0 or permission of the instructor.*

**AS/POLS 4190 6.0 The Politics of Protest in Canada.** A study of the principal movements of political protest in 20th-century Canada. Attention is focused on analyses of right-wing and left-wing responses to developments in Canadian society.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4350 6.0.*

*Integrated with: GS/POLS 5170 6.0.*

**AS/POLS 4200 6.0 International Relations Theory.** A survey of recent theories and approaches to international relations. Possible topics include systems analysis, integration, decision making, communication theory, games theory, social psychological analyses, quantitative methods, strategy and deterrence, and bargaining and negotiation.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

**AS/POLS 4205 3.0 The New German Politics and European Integration.** This course analyses Germany's domestic and foreign politics and the changes within German society after unification and in the context of the end of the cold war. In particular, the course examines the international ramifications of German separation and unification, and the effects of unification on European integration. As well, the impact of unification on Germany's economy and the life of German women is evaluated. Changes in German society and politics, such as the transition of its party system, the rise of right-wing extremism and nationalism, and a new foreign policy are analyzed in comparison to similar trends in the rest of Europe.

*Prerequisite: AS/POLS 2210 6.0 or AS/POLS 2510 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5205 3.0.*

**AS/POLS 4210 3.0 Peace Research.** The purpose of the course is to examine the rationale, assumptions and key issues of peace research, focusing on the possible contributions which peace research can bring to the processes of social change. The course begins with an examination of power, both within the contemporary strategic environment and within the discipline of peace research. A series of issues is then examined, including militarism, feminist perspectives on peace, ecopolitics and so on.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

**AS/POLS 4215 3.0 Multilateralism.** This half course studies the institutions and practices of global and regional cooperation, with a particular emphasis on the forces shaping multilateralism (e.g. states, cultures, social movements) and the way multilateralism can influence global structural change.

*Prerequisites: AS/POLS 2210 6.0; and AS/POLS 3240 3.0 and AS/POLS 3250 3.0, (or AS/POLS 3270 3.0 and AS/POLS 3275 3.0) or permission of the instructor.*

**AS/POLS 4220 3.0 Canadian National Security Policy: Issues and Problems.** An analysis of contemporary issues and problems in Canadian national security policy.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

**AS/POLS 4225 3.0 Canada and the Americas.** The course assesses Latin America prospects in the 1990's and within that context, policy options in Canadian-Latin American relations. The course covers the present Latin American economic environment; the socio-political and "good government" backdrop to economic revival; the process and politics of trade liberalization in Western Hemisphere; and Canada's emergence as a full actor in the Americas. The course introduces students to the principal themes and debates surrounding the apparent revival of several major Latin American countries.

*Integrated with: GS/POLS 5225 3.0.*

*Prerequisite: AS/POLS 2510 6.0 or permission of the instructor.*

**AS/POLS 4230 3.0 Canadian Defence Policy: Issues, Problems and Future Developments.** An analysis of contemporary topics, issues and problems in Canadian defence policy.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

**AS/POLS 4235 3.0 Latin American Development.** An examination of the processes and issues connected with development in Latin America including the impact of political economy, impact on culture and impact on women.

*Prerequisite: Any second-year political science course or permission of the instructor.*

*Integrated with: GS/POLS 5555 3.0.*

**AS/POLS 4240 3.0 Canadian/American Relations.** This seminar examines the nature of the various structures, processes and issue-areas involved in the political, economic and cultural relationship between Canada and the US.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5240 3.0.*

**AS/POLS 4245 3.0 Gender and International Relations.** This course explores theoretical and empirical issues raised by the consideration of gender in international relations (IR). We examine theoretical concerns raised by feminists and feminist IR scholars, and issues including: gender and the environment, militarism, international political economy and human rights.

*Cross-listed to: AS/AK/GL/WMST 4802 3.0.*

*Prerequisites: AS/POLS 2210 6.0 and AS/POLS 3450 3.0 or AS/AK/GL/WMST 3516 3.0 or permission of the instructor.*

*Integrated with: GS/POLS 5245 3.0.*

**AS/POLS 4250 3.0 Canadian Foreign Policy.** A research seminar focusing on such topics as Canada's role in NATO and NORAD, the Law of the Sea Conference, relations with the United States, North-South issues, international economic trends and domestic sources of foreign policy.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5250 3.0.*

**AS/POLS 4255 6.0 Issues in International Human Rights.** This seminar examines the operation and efficacy of the United Nations human rights treaty system. It focuses on both the substantive law and the operational strategies associated with their implementation.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4000X 6.0.*

*Integrated with: GS/POLS 5000I 6.0.*

**AS/POLS 4260 3.0 Contemporary Security Studies.** An examination of current issues and problems in the fields of contemporary strategic studies and international conflict, with a particular emphasis on regional security, conflict management and conflict resolution.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

**AS/POLS 4270 3.0 United States Foreign Policy.** An examination of the historical development of the objectives of US foreign policy and of current policy issues. The course takes different analytic approaches to understanding the formulation and implementation of policy with emphasis on bureaucratic politics.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5270 3.0.*

**AS/POLS 4280 3.0 Soviet and Post-Soviet Foreign Policies.** A study of the formulation and implementation of Soviet foreign policy from an analytic rather than an historical-descriptive standpoint.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5280 3.0.*

**AS/POLS 4290 3.0 Topics in International Political Economy.** An examination of the actors, processes and issues involved in the politics of international economic relations.

*Prerequisite: AS/POLS 2210 6.0 or permission of the instructor.*

**AS/POLS 4291 3.0 Capital and Power in the Global Political Economy.** This course focuses on the connection between capital and power in the international political economy. The interaction between capital, labour, states and other social groups is examined, with particular attention paid to the implications of transnational capital accumulation.

*Prerequisite: AS/POLS 2210 6.0, or permission of the instructor.*

**AS/POLS 4295 3.0 Political Economy of Global Finance.** This course examines the functioning and broader ramifications of international finance. Emphasis is put on how financial markets operate, their historical evolution and their larger role in the working of the global political economy.

*Prerequisite: AS/POLS 3275 3.0 or permission of the instructor.*

**AS/POLS 4300 6.0 Public Policy Research.** An examination of the theoretical literature in public policy and policy sciences leading toward development of individual policy research for the presentation and critical discussion at the seminar.

*Prerequisites: AS/POLS 2300 6.0 and AS/POLS 3300 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4600 6.0 (prior to Fall/Winter 1988).*

**AS/POLS 4311 3.0 Global Justice and the Environment.** This course provides a general introduction to socio-environmental ethics and, in particular, social justice as applied to global development and international relations.

*Cross-listed to: ES/ENVS 4311 3.0.*

*Prerequisite: EN/ENVS 3000 3.0 or permission of the instructor.*

**AS/POLS 4340 6.0 Practicum in Survey Research.** This course provides the theoretical background and practical skills needed to conduct surveys. Using computerized telephone survey facilities of the Institute for Social Research, students take part in questionnaire design, interviewing, data processing, statistical analysis and report writing.

*Cross-listed to: AS/SOCI 4080 6.0.*

**AS/POLS 4435 3.0 The Extreme and Neo-Fascist Right in Contemporary Europe.** An examination of the increasing prominence of extreme right-wing and neo-fascist groups in Western Europe. Particular emphasis is placed on France.

*Prerequisite: Any second-year political science course or permission of the instructor.*

*Integrated with: GS/POLS 5435 3.0.*

**AS/POLS 4440 3.0 Human Rights in Europe and Canada.** The objective of this course is to examine the European Human Rights Convention system in Strasbourg and its political significance in Europe. The focus is on the work of the European Commission and European Courts of Human Rights in the context of national politics and policy priorities of the member-states.

*Prerequisite: AS/POLS 2510 6.0 or AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4440 6.0.*

*Integrated with: GS/POLS 5440 3.0.*

**AS/POLS 4445 3.0 European Union.** The objective of this course is to examine the key institutions and processes of the EC (Council, COREPER, Commission, Parliament and European Court) in the context of recent developments. The focus is on the major issues facing the Community: the Maastricht treaty and its implementation; future enlargement by admission of the EFTA and the East-Central European countries; and democratic deficit and future institutional reform.

*Prerequisite: AS/POLS 2510 6.0 or AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4440 6.0.*

**AS/POLS 4450 3.0 Madness, Asylums and Politics I.** This course looks at the following questions: Is mental illness a myth? What is madness? Has the treatment of the insane really improved since the 18th century? What explains the evolution of government policy toward the insane?

*Prerequisite: Any second-year political science course or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4450 6.0.*

*Integrated with: GS/POLS 5450 3.0.*

**AS/POLS 4455 3.0 Madness, Asylums and Politics II.** After World War II, mental health policy began to change. The day of the large asylum was over and a massive number of people were deinstitutionalized. Many wound

up in unsupervised boarding homes or on the streets of major urban centres. This course takes a hard look at the evolution of government policy in an age of deinstitutionalization and cutbacks.

*Prerequisites: AS/POLS 4450 3.0 and any second-year political science course or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4450 6.0.*

*Integrated with: GS/POLS 5455 3.0.*

**AS/POLS 4470 3.0 Working Class Politics in Capitalist Democracies.** This course seeks to understand the current parameters of working class politics through a theoretical and historical examination of the relationship between parties, trade unions and the democratic capitalist state.

*Prerequisite: AS/POLS 2510 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4710 3.0.*

*Integrated with: GS/POLS 5460 3.0.*

**AS/POLS 4520 3.0 Nationalism, Communism and Imperialism.** The course deals with the relationship between imperial systems and national communities. It includes a comparative analysis of empire-building and nation-building, concentrating on center-periphery conflicts and imperial disintegration. Case studies are drawn primarily from Russia/USSR and Eastern Europe, the Balkans and the Middle East. Other regional examples are also considered.

*Prerequisite: AS/POLS 2210 6.0 or AS/POLS 2510 6.0 or permission of the instructor.*

**AS/POLS 4530 3.0 Crisis and Collapse of the Soviet Bloc.** This course traces the evolution of the socialist idea and its application up to and including the Gorbachev reforms in the 1980s. Emphasis is on the development of the socialist economic system, dissent and human rights, the cold war and the evolution of foreign policy and the party-state relations.

*Prerequisite: Any 2000-level political science course or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4530 6.0.*

**AS/POLS 4540 6.0 Caribbean Politics.** A study of selected aspects in Caribbean politics from the protest movements of the 1930s to the present. Special emphasis is paid to attempts at Caribbean regional integration within the context of wider political development.

*Prerequisite: AS/POLS 2510 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5540 6.0.*

**AS/POLS 4545 3.0 Approaches to American Politics.** This seminar introduces participants to overarching interpretations of American politics. We critically examine different theories on the nature and driving forces of politics in the United States since the creation of the republic.

*Prerequisite: AS/POLS 2510 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5545 3.0.*

**AS/POLS 4575 3.0 The Politics of Southern Africa.** This course examines South Africa's racial capitalist system and resistance to it — focusing on the present transition to a more equitable political and economic system; it also explores the current situation in other southern Africa countries (Angola, Mozambique, Namibia, Zimbabwe).

*Prerequisites: AS/POLS 2510 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5575 3.0.*

**AS/POLS 4590 3.0 Political Development in India.** A survey of political development in contemporary India, including, for example, the transformation from colony to independence; and the challenge to the liberal-democratic system by caste, communalism, regionalism and communism.

*Prerequisite: AS/POLS 2510 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5590 3.0.*

**AS/POLS 4595 3.0 Southeast Asia in the New Global Order.** Using Southeast Asia as its focus, this course addresses questions relating to economic development, political change and regional security in the emerging global order. It stimulates interest in politics and international relations of developing countries in Southeast Asia.

*Prerequisite: AS/POLS 2510 6.0 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3595 3.0.*

**AS/POLS 4600 3.0 Judicial Administration in Canada.** An overview of judicial administration in Canada. The course focuses on judicial independence, the constitutional parameters of judicial administration, course administrative structures and recent issues relevant to judicial review and judicial policy making.

*Prerequisite: AS/POLS 3600 3.0 or AS/POLS 3605 3.0 or AS/POLS 3160 6.0 or permission of the instructor.*

*Integrated with: GS/POLS 5110 3.0.*

**AS/POLS 4601 3.0 Systems of Justice.** An overview of procedures in the Canadian justice system, with comparisons to other common law justice systems and some civil law systems. The course begins with a study of civil and criminal procedure and then proceeds to a review of recent issues relevant to justice system procedures.

**AS/POLS 4605 3.0 Ethical Politics.** An analysis of the current systems of ethical rules in Canadian politics concerning conflicts of interest, election financing, lobbying and truthfulness in the presentation of information. The history and adequacy of these rules are to be considered as well as their philosophical foundations.

*Prerequisite: Any second-year political science course or permission of the instructor.*

*Recommended: AS/POLS 2100 6.0 or AS/POLS 2610 6.0.*

*Integrated with: GS/POLS 5605 3.0.*

**AS/POLS 4620 3.0 Health Policy in Canada.** The critical issues in health care delivery are quality, cost and availability. Interactions between and among health care consumers, providers, payers and regulators are examined in terms of their impact on those three central issues. The course is interdisciplinary in content and highly interactive in style, with all members of the seminar being relied on to contribute extensively.

*Prerequisite: Any second-year political science course or permission of the instructor.*

*Recommended: AS/POLS 2100 6.0 or AS/POLS 2610 6.0.*

**AS/POLS 4625 3.0 Issues in Canadian Health Policy.** This course applies the analytical framework developed in AS/POLS 4620 3.0, Health Policy in Canada, to the study of specific aspects of the Canadian health care system. The specific topics addressed are determined both by their timeliness and by the expressed interests of the students.

*Prerequisite: AS/POLS 4620 3.0 or permission of the instructor.*

**AS/POLS 4630 3.0 Policy Making and Royal Commissions.** As different Royal Commissions are established and conclude their research, their specific findings are discussed with particular reference to the formulation of public policy. Therefore, different Royal Commissions may be discussed in each year.

*Prerequisite: Any second-year political science course or permission of the instructor.*

**AS/POLS 4640 3.0 Politics of Work and Industry.** An analysis of the ability of capitalist economic and political institutions to restructure and project themselves anew, including more flexible forms of production and new political alliances. The historical forces which have shaped the politics of work and industry are examined, as well as the contemporary restructuring of work, the new industrial policy debate, and the altering spatial patterns of production and trade.

*Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or AS/POLS 2510 6.0 or permission of the instructor.*

**AS/POLS 4650 3.0 Provincial and Municipal Government in Ontario.** This seminar course examines the theory and practice of the Ontario provincial system of government, including an overview of the federal-provincial and provincial-municipal arrangements, and an examination of the organization of the executive branch and selected ministries and agencies within the Ontario government. The course includes presentations by various senior provincial and municipal public servants.

*Cross-listed to: AK/POLS 4109D 3.0.*

*Prerequisite: Any second-year political science course or permission of the instructor.*

*Recommended: AS/POLS 2100 6.0 or AS/POLS 2610 6.0.*

*Integrated with: GS/POLS 5650 3.0.*

**AS/POLS 4670 3.0 The Politics of Cyberspace.** This course considers political implications of the new information technologies. Including: surveillance society; information as commodity; private data banks; access to information v. intellectual property; state regulation and control; intelligence and 'infowar'; global networks and virtual communities; cyberspace and subversive imagination.

*Degree credit exclusion: AS/POLS 4000L 3.0 (Fall/Winter 1997-1998 to 2000-2001).*

**AS/POLS 4700 3.0 Topics in International Political Economy of Eastern Asia.** This seminar examines the changing dynamics of political, economic and security relations in and among the countries of Eastern Asia.

*Degree credit exclusion: AS/POLS 4500 3.0.*

*Prerequisite: AS/POLS 2210 6.0 or AS/POLS 2510 6.0 or permission of the instructor.*

**AS/POLS 4705 3.0 International Politics of Human Rights and Democracy in Asia.** The course examines the international politics of human rights and democracy in the region as a window on theoretical and other debates over the universality, origins, and purposes of these norms and related institutions in a context of globalization.

*Prerequisite: AS/POLS 2210 6.0.*

**AS/POLS 4735 3.0 After the Fall: International Relations of Collapsed Socialism.** An analysis of the Gorbachev reforms and the collapse of the Soviet system in Eastern Europe and the Soviet Union. The analysis will extend to include the Chinese model of socialist reform under Deng Xiaoping, and some examples will be drawn from other communist states.

*Prerequisite: Any second-year political science course or permission of the instructor.*

*Degree credit exclusions: AS/POLS 4535 3.0, AS/POLS 4530 6.0.*

*Integrated with: GS/POLS 5535 3.0.*

**AS/POLS 4770 3.0 Political Economy of Development.** This course offers a comparative analysis of patterns of peripheral capitalist development in Latin America and the Caribbean. It explores the formation of social classes, the development of the modern state and the current economic crises in Mexico and Brazil.

*Prerequisite: AS/POLS 2510.06 or permission of the instructor.*

*Degree credit exclusion: AS/POLS 4570 3.0.*

**AS/POLS 4810 3.0 Social Justice and Political Activists.** This seminar surveys alternative philosophical terrains for discussing social justice and past approaches to constructing a better world. Its main focus is social justice in modern capitalism — not just as a matter of alternative policies, but of alternative politics.

**AS/POLS 4980 6.0 Undergraduate Colloquium.** The undergraduate colloquium offers students with initiative a unique opportunity to pursue research interests in a collegial framework. For further information see the Political Science supplementary calendar.

*Prerequisite:* By departmental invitation to outstanding Honours BA Political Science students.

**AS/POLS 4985 6.0 Global Political Studies Honours Colloquium.** The colloquium is the Global Political Studies Specialized Honours BA Seminar. The seminar meets on a weekly basis to discuss assigned readings about current issues and debates in international relations and comparative world politics.

*Prerequisite:* Open to students who have successfully completed at least 84 credits.

**AS/POLS 4990 3.0/4990 6.0 Supervised Reading and Research.** During their final academic session in Specialized or Honours programs in Political Science students may select one supervised reading course. (Students wishing a half course will register for AS/POLS 4990 3.0.) Students in Honours Double Major or Honours Major/Minor programs have a similar option, provided at least one additional Political Science course is taken at the 4000 level.

*Prerequisite:* The permission of the Director of Undergraduate Studies.

*Note:* Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.

**AS/POLS 4995 3.0/4995 6.0 Practicum in Public Administration.** Public Policy and Administration students in their fourth year may take an independent, individually-supervised reading and research course which combines volunteer work experience in an agency with an academic analysis of that experience. The course may be taken either on a full-year or half-year basis, when the student and the course meet the requirements set out by the Faculty of Arts and those established by the department. Students are normally registered in AS/POLS 4300 6.0 and AS/POLS 4995(3.0 or 6.0) concurrently.

*Prerequisite:* AS/POLS 3610 6.0 or AS/POLS 3190 6.0 or AS/SOCI 3620 6.0 or AS/POLS 4300 6.0 or permission of the instructor.

## Psychology – Arts, Pure and Applied Science

### Department Office:

296 Behavioural Sciences Building,  
416-736-5116

### General Information:

209 Behavioural Sciences Building, 416-736-5115

### Undergraduate Office:

292 Behavioural Sciences Building,  
416-736-5117

### Chair of the Department:

F. Weizmann

### Distinguished Research Professors:

N.S. Endler, D. Regan

### Professors:

E. Bialystok, R.E. Fancher, G. Flett,  
L. Greenberg, E. Greenglass, L. Harris,  
P.M. Kohn, C.H. Lay, H. Ono, D. Pepler,  
S. Pyke, D. Rennie, P. Stager

### Professors Emeriti:

N. McK. Agnew, D. Bakan, W.H. Coons,  
K. Danziger, H.I. Day, M. Eagle, H.R. Flock,  
J. Gaito, I.P. Howard, P.K. Kaiser, J. Pascual-  
Leone, B.J. Quarrington, L. Rice, V. Sermat,  
I. Silverman, M.R. Westcott

### Associate Professors:

L. Angus, J. Bebeko, J. Blake, S. Bryson,  
J. Check, J. Connolly, J.D. Crawford,  
H. McK. Doan, M.L. Friendly, K. Grasse,  
C. Green, W. Heinrichs, P.A. Herzberg,  
J. Irvine, J. Johnson, I. Kusyszyn,  
R. Lalonde, M. Legerstee, H. Mandel,  
D. McCann, M. Mongrain, R. Muller,  
D.W. Reid, J. Rich, R. Schuller, R. Sheese,  
W. Struthers, T. Teo, S. Toukmanian, A. Wall,  
P. Waxer, F. Weizmann, N.I. Wiener,  
D. Wiesensthal, M. Wintre

### Associate Professors Emeriti:

L.R. Boulter, K. Koenig, B. Kohn,  
H.A. Minden, J. Stewart, M. Ziegler

### Assistant Professors:

S. Adler, C. Chataway, R. Cribbie,  
M. Desrocher, J. Elder, V. Goel, D Goodman,  
I. McGregor, S. Murtha, K. Trobst,  
C. Wekerle, L. Wilcox

The Department of Psychology offers a curriculum which begins with a broad introductory survey of the various areas of enquiry within the discipline of psychology and the various applications of psychological knowledge.

The intermediate level of the curriculum then provides choice from a wide range of half-year courses which pursue selected areas of psychology in greater depth. Insofar as possible, courses are offered in multiple sections with alternative formats so that students may elect the format which most nearly meets their needs.

At the advanced level, courses are typically offered in relatively small seminars. Students are encouraged to select a wide range of courses and a high degree of flexibility is possible within the programs offered. It is the intention of the Department of Psychology to serve the needs of students whose interests in the discipline range from curiosity to commitment.

For specific requirements of programs offered by this department, see the Faculty of Arts "Programs of Study" section of this Calendar for BA and BA Honours programs and Science section V for BSc and BSc Honours programs.

## Joint Programs with Seneca College

The Psychology Department also offers three joint programs with Seneca College: students may earn a Diploma in Early Childhood Education, a Social Service-Gerontology Diploma or a Certificate in Rehabilitation Services from Seneca, along with the BA or BA

Honours degree in Psychology. For details, see "Psychology" in the Faculty of Arts "Programs of Study" section of this Calendar. The Certificate in Rehabilitation Services may also be combined with a BSc or BSc Honours degree in Psychology - see "Certificate Programs" in Science section II.

## Courses in Psychology

Admission to all 2000-, 3000- and 4000-level courses in Psychology (with the exception of AS/SC/PSYC 2020 6.0, AS/SC/PSYC 2021 3.0 and AS/SC/PSYC 2022 3.0) is conditional upon satisfactory completion of Introduction to Psychology, AS/SC/PSYC 1010 6.0.

*Note: students must obtain a minimum grade of C (4.0) in AS/SC/PSYC 1010 6.0 to be permitted to continue as a major or minor in Psychology as well as to take Psychology courses for which AS/SC/PSYC 1010 6.0 is a prerequisite.*

Normally, courses in Psychology meet for at least three hours a week, for one term (three credits - course numbers end in "3.0") or for two terms (six credits - course numbers end in "6.0"). Not all courses listed below are offered in any one year or term. Most courses are offered in more than one section. Details of section format and the terms in which half-year courses are offered are announced in the department's supplemental calendar.

Students cannot obtain credit for two sections of the same course, except for Special Topics and Independent Study courses.

Some sections of 3000- and 4000-level courses may require AS/SC/PSYC 2020 6.0 or equivalent as a prerequisite. Students should note that the material taught in this course may be important for them in their chosen career or in graduate work. Students might also consider taking AS/SC/PSYC 3010 3.0 as preparation for work in the final academic session.

Students in all Psychology courses are encouraged to learn about psychological research by participating as subjects in research projects conducted under the supervision of the Department of Psychology.

For a list of Atkinson Faculty of Liberal and Professional Studies courses which are degree credit exclusions for Psychology courses in this Calendar, Arts students should consult the Faculty of Arts Degree Credit Exclusion/Equivalent Tables in the back of the Lecture Schedules. Science students should consult the Faculty of Pure and Applied Science Degree Credit Exclusion/Equivalent Tables in the back of the Lecture Schedules and in the Office of Science Academic Services beginning in March each year.

## 1000-Level Course

**AS/SC/PSYC 1010 6.0 Introduction to Psychology.** A survey of psychology introducing the basic terms, concepts and methods of psychology. Included are topics such as learning, perception, motivation, cognition, animal behaviour, child development, personality and abnormal and social psychology.



*Note: This course is required for all students who intend to pursue additional courses in Psychology at the 2000, 3000 and 4000 levels. The course must be passed with a minimum grade of C (4.0) in order to pursue further studies in Psychology.*

## 2000-Level Courses

### 2000 Series

**AS/SC/PSYC 2020 6.0 Analysis of Psychological Data.** An introduction to the analysis of data from experiments and naturalistic observation. Fundamental conceptions and techniques of both descriptive and inferential statistics and their application to psychological research.

*Prerequisite or corequisite: AS/SC/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).*

*Degree credit exclusions: AS/SC/PSYC 2021 3.0, AS/SC/PSYC 2022 3.0, SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 2500 3.0, AS/ECON 3500 3.0, AS/SC/GEOG 2420 3.0, AS/SC/GEOG 3421 3.0, AS/SC/KINE 2050 3.0, AS/SC/KINE 3150 3.0, AS/SC/AK/MATH 1131 3.0, AS/SC/MATH 1132 3.0, AS/SC/AK/MATH 2500 3.0, AS/SC/AK/MATH 2560 3.0, AS/SC/AK/MATH 2570 3.0, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SOCI 3030 6.0.*

*Notes: 1. Students who discontinue registration in AS/SC/PSYC 2020 6.0 after the Fall Term may not petition for credit for a half course in statistics.*

*2. The degree credit exclusions listed above may not be substituted for AS/SC/PSYC 2020 6.0 to satisfy degree requirements unless approved as acceptable substitutes by the department and Faculty - see the Psychology program of study requirements in the Faculty of Arts section or in Science section V of this Calendar.*

**AS/SC/PSYC 2021 3.0 Introduction to Descriptive Statistics.** Fundamental conceptions and techniques of descriptive statistics and their application to psychological research.

*Prerequisite or corequisite: AS/SC/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).*

*Degree credit exclusions: AS/SC/PSYC 2020 6.0, SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 2500 3.0, AS/SC/GEOG 2420 3.0, AS/SC/KINE 2050 3.0, AS/SC/AK/MATH 1131 3.0, AS/SC/AK/MATH 2500 3.0, AS/SC/AK/MATH 2560 3.0, AS/SC/PHED 2050 3.0, AS/POLS 3300 6.0, AS/SOCI 3030 6.0.*

**AS/SC/PSYC 2022 3.0 Introduction to Inferential Statistics and the Analysis of Variance.** Fundamental conceptions and techniques of inferential statistics and their application to psychological research. Techniques and procedures in analysis of variance and non-parametric statistics are also covered.

*Prerequisite: One of AS/SC/PSYC 2021 3.0, AS/ECON 2500 3.0, AS/SC/KINE 2050 3.0, AS/SC/AK/MATH 2560 3.0, AK/PSYC 2510 3.0.*

*Prerequisite or corequisite: AS/SC/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).*

*Degree credit exclusions: AS/SC/PSYC 2020 6.0, SC/BIOL 2060 3.0, SC/BIOL 3090 3.0, AS/ECON 3500 3.0, AS/SC/GEOG 3421 3.0, AS/SC/KINE 3150 3.0, AS/SC/MATH 1132 3.0, AS/SC/AK/MATH 2500 3.0, AS/SC/AK/MATH 2570 3.0, AS/POLS 3300 6.0, AS/SOCI 3030 6.0.*

**AS/SC/PSYC 2030 3.0 Introduction to Research Methods in Psychology.** The course introduces the research methods and reasoning processes appearing in the psychological literature. From this literature selected articles are read and analyzed with respect to research issues such as philosophical orientation, observational method, research design, measurement procedures and validity.

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

*Degree credit exclusions: AS/SC/KINE 2049 4.0. Not open to students who have passed or are taking AS/SC/PSYC 3010 3.0.*

### 2100 Series

**AS/SC/PSYC 2110 3.0 Developmental Psychology.** An examination of the essential issues in developmental psychology with special emphasis on the nature-nurture issue, cross-culture comparisons, the phylogenetic vs. ontogenetic model, intellectual and social development and the role of biological factors in development.

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

**AS/SC/PSYC 2120 3.0 Social Psychology.** An examination of social behaviour; experience and interaction; processes of social influence, attitude formation and change; and persuasive communication.

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

**AS/SC/PSYC 2130 3.0 Personality.** A survey of the major theories which attempt to explain the underlying structure and dynamics of variations in individual behaviour in life situations.

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

### 2200 Series

**AS/SC/PSYC 2210 3.0 Learning.** A course in problems, experimental methods and research findings in basic learning processes.

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

**AS/SC/PSYC 2220 3.0 Perception.** A course in problems, experimental methods and research findings in perception.

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

**AS/SC/PSYC 2230 3.0 Motivation.** A course in problems, experimental methods and research findings in motivation.

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

**AS/SC/PSYC 2240 3.0 Physiological Psychology.** A course in problems, experimental methods and research findings in the biological bases of behaviour.

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

## 3000-Level Courses

### 3000 Series

**AS/SC/PSYC 3010 3.0 Research in Psychology.** An intermediate course to provide further experience with the design, execution, analysis and communication of psychological studies. The course builds on the foundation established in AS/SC/PSYC 1010 6.0 and further prepares students for intermediate and advanced courses oriented toward research. This course is highly useful preparation for many types of Honours Thesis research.

*Prerequisites: AS/SC/PSYC 1010 6.0 with a minimum grade of C; AS/SC/PSYC 2030 3.0.*

*Prerequisite or corequisite: AS/SC/PSYC 2020 6.0.*

*Degree credit exclusions: Not open to students who have passed or are taking AS/SC/PSYC 4000 6.0 or AS/SC/PSYC 4170 6.0.*

**AS/SC/PSYC 3030 6.0 Intermediate Statistics.** A course in applied statistics, emphasizing linear models for regression analysis and analysis of variance.

*Prerequisites: AS/SC/PSYC 1010 6.0 with a minimum grade of C; AS/SC/PSYC 2020 6.0 or equivalent.*

*Degree credit exclusions: AS/SC/MATH 3033 3.0, AS/SC/AK/MATH 3034 3.0, AS/SC/AK/MATH 3230 3.0, AS/SC/AK/MATH 3330 3.0.*

**AS/SC/PSYC 3090 3.0 Principles of Psychological Measurement.** An introduction to measurement theory, including principles of psychological testing with special emphasis on test construction and the evaluation and interpretation of test scores. The course does not address the applied uses of tests.

*Prerequisites: AS/SC/PSYC 1010 6.0 with a minimum grade of C; AS/SC/PSYC 2020 6.0 or equivalent.*

### 3100 Series

**AS/SC/PSYC 3140 3.0 Abnormal Psychology.** A discussion of the nature and causes of behaviour disorders. Consideration is given to the contributions of personality theory to the understanding of disturbed behaviour.

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*



### 3200 Series

**AS/SC/PSYC 3250 3.0 Neural Bases of Behaviour.** Experimental and clinical studies illustrating behavioural effects of brain damage are examined in a survey of issues concerning the development and localization of cerebral functions.

*Prerequisite:* AS/SC/PSYC 2240 3.0.

**AS/SC/PSYC 3260 3.0 Cognitive Processes.** A course in the experimental psychology of the higher mental processes. Topics to be covered include attention, recognition, remembering, thinking and language.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3270 3.0 Sensory Processes.** A course designed to help develop a better understanding of our senses. Particular attention is paid to experimental methods and research findings as they relate to basic as well as applied problems.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3280 3.0 Animal Behaviour.** A course in problems, experimental methods and research findings in comparative animal behaviour.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3290 3.0 Psycholinguistics.** A survey of psycholinguistic research and theory. Topics include language acquisition, psychological correlates of transformational grammars, and information-processing approaches to language.

*Cross-listed to:* AS/LING 3220 3.0.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C, or AS/LING 1000 6.0.

*Degree credit exclusion:* AS/LING 3220 3.0.

### 3400/3500 Series

**AS/SC/PSYC 3410 3.0 Educational Psychology.** An examination of the fundamental psychological issues encountered in education, including the nature and control of human learning, theories of motivation, development of skills, concept formation, creative and critical thinking, and social psychological processes in education.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3420 3.0 Evolutionary Psychology.** The evolutionary origins of infra-human and human psychological processes and behaviour are considered from the perspective of the original Darwinian theory through to current sociobiological concepts.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/PSYC 3430 3.0 Behaviour in Groups: Small Group Processes.** This course focuses on human behaviour in small group situations, with particular emphasis on sensitivity training,

communication, interaction feedback processes, norms, group development and role theory.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3440 3.0 An Introduction to Health Psychology.** This course explores the developing role of psychology in the health field. It provides psychological frameworks that elucidate the (non-) practice of health behaviours, the role of stress in illness, adjustment to and coping with illness and representations of health/illness.

*Prerequisite:* AS/SC/PSYC 2120 3.0 or AS/SC/PSYC 2240 3.0.

*Degree credit exclusions:* AS/SC/KINE 4050D 3.0, AS/SC/KINE 4710 3.0.

**AS/SC/PSYC 3450 3.0 Environmental Psychology.** This course acquaints students with issues and research findings in environmental psychology. Topics emphasize the effects of the physical settings created by humans on behaviour and draw material from research in personal space, territoriality, privacy and small-group ecology.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/PSYC 3460 3.0 Psychology of Religion.** The interpretation of religious phenomena in terms of human thought, feeling and volition.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3470 3.0 Introduction to the History of Psychology.** An introduction to the history of psychology in its applications and as an academic discipline. Psychological thought and practice are examined in their social context. The course traces the historical development of different orientations to the study of psychology.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3480 3.0 Psychology of Women: an Overview.** This course explores factors associated with the psychology of women, including gender-role stereotypes, socialization practices, male-female differences and the family. At all times, the interpretation offered is made with reference to the broader social context.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3490 3.0 Psychology of Adult Development and Aging.** This course offers a broad survey of the psychology of aging. Major topics include biological and psychological theories of aging; age changes in intelligence, personality and social relations; the pathologies of old age and methods of intervention.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3500 3.0 Development in Adolescence.** This course involves the scientific study of changes in affective, social and cognitive development during the second decade of life. The course focuses on fundamental developmental changes, the contexts in which development occurs and the central psychosocial issues of adolescence.

*Prerequisites:* AS/SC/PSYC 1010 6.0 with a minimum grade of C; AS/SC/PSYC 2110 3.0.

**AS/SC/PSYC 3510 3.0/3510 6.0 Special Topics in Psychology.** As the need arises, the department offers courses or seminars on particular topics not ordinarily available. Details on the topics covered in different sections of the course are given in the department's supplemental calendar. Some special topics courses may not be eligible for Science (SC) credit.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3520 3.0 Infancy.** This course involves the scientific study of changes in motor development, perception, social and physical cognition that occur during the first two years of life. Focus is on the nature and determination of these changes and theoretical and methodological advances.

*Prerequisite:* AS/SC/PSYC 2110 3.0.

**AS/SC/PSYC 3530 3.0 The Psychology of Individual Differences.** The scientific study of individual difference variables such as traits, values, interests, motives, skills, abilities, attitudes, styles and roles. Includes the origins and stability of individual differences.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

**AS/SC/PSYC 3540 3.0 Introduction to Psychological Testing.** This course covers various psychological tests (intelligence, personality etc.) and their use in applied settings. Special consideration is given to the interpretation and reporting of test scores and profiles. This course is not intended to teach techniques of test administration.

*Prerequisite:* AS/SC/PSYC 3090 3.0.

**AS/SC/PSYC 3550 3.0 Creativity: Pure and Applied.** This course offers a systematic study of the persons, processes and products of creativity, including theories, research and measurement methods. Creativity is defined as something which is both novel and significant.

*Prerequisite:* AS/SC/PSYC 1010 6.0 with a minimum grade of C.

*Degree credit exclusions:* AS/SC/PSYC 3510D 3.0 (taken before 1994-1995), AS/SC/PSYC 3510V 3.0.

**AS/SC/PSYC 3560 3.0 Psychology of Death and Dying.** This course considers issues and topics in thanatology including sociocultural influences on our understanding of death, care of the dying and medical ethics. It examines

research and theory in aging and illness, adjustment to life-threatening conditions, and grief reactions.

*Cross-listed to: AK/PSYC 3290 3.0.*

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

**AS/SC/PSYC 3570 3.0 Organizational Psychology.** (formerly AS/SC/PSYC 3510B 3.0 — before 1999-2000) This course involves the study of how individuals think about and relate to one another in organizations and business. It raises theoretical, scientific and practical questions about various aspects of psychological life in the workplace.

*Prerequisites: AS/SC/PSYC 1010 6.0 with a minimum grade of C; AS/SC/PSYC 2120 3.0.*

*Degree credit exclusion: AS/SC/PSYC 3510B 3.0.*

**AS/SC/PSYC 3590 3.0 Drugs and Behaviour.** (formerly AS/SC/PSYC 3510C 3.0 — before 2001-2002) This course surveys various aspects of major licit and illicit drugs, including historical changes in use/abuse, methods of administration, neurochemical actions, pharmacological effects, and theories of addiction as viewed from physiological, cognitive, learning and social-psychological perspectives.

*Prerequisite: AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

*Degree credit exclusion: AS/SC/PSYC 3510C 3.0.*

### 3800 Series

**AS/SC/PSYC 3890 3.0/3890 6.0 Independent Study.** Students may arrange to do independent study with members of the Psychology Department. This allows students and professors to work in areas of psychology which lie outside the usual course offerings. Contact the undergraduate office for details.

*Prerequisites: 36 credits completed, including AS/SC/PSYC 1010 6.0 with a minimum grade of C.*

*Note: Students wishing a half course register in AS/SC/PSYC 3890 3.0. Students may take one full course (or two half courses) in independent study in each academic session. Faculty of Arts students should see the Faculty of Arts section of this Calendar for regulations on "Independent Reading Courses". Some independent study topics may not be eligible for Science (SC) credit.*

### 4000-Level Courses

#### Prerequisites

Completion of AS/SC/PSYC 1010 6.0 with a minimum grade of C is a prerequisite for all 4000-level Psychology courses.

Most 4000-level Psychology courses require the following **general prerequisites**: students must be in an Honours program in Psychology and have completed 84 university credits. [Note: "An Honours program" includes any Specialized Honours, Honours, Honours Double Major, or Honours Major/Minor (with a

major or minor in Psychology) program in the Faculties of Arts and Pure and Applied Science.]

Students should note the other listed prerequisites for each 4000-level course. Students may be allowed to register for a course for which they lack the stated prerequisites if they obtain written permission of the instructor. See the department's supplemental calendar for the conditions under which this permission may be given.

**AS/SC/PSYC 4000 6.0 Honours Thesis.** A thesis involving empirical or bibliographic research. Students arrange for supervision by a member of the Psychology Department. Contact the undergraduate office for details. Not open to visiting students. Some honours thesis topics may not be eligible for Science (SC) credit.

*Prerequisites: General prerequisites, including AS/SC/PSYC 2020 6.0 (or equivalent) and AS/SC/PSYC 2030 3.0.*

*Degree credit exclusion: AS/SC/PSYC 4170 6.0.*

**AS/SC/PSYC 4010 6.0 Advanced Seminar in Developmental Psychology.** Major modern theories of child development are extensively reviewed and their corresponding data and methodologies are analyzed. Learning approaches stressing environmental influences are compared with cognitive and maturational approaches.

*Prerequisites: General prerequisites, including AS/SC/PSYC 2110 3.0.*

**AS/SC/PSYC 4020 6.0 Advanced Seminar in Social Psychology.** A critical examination of research on topics such as socialization, processes of social influences, small groups, communication, persuasion, leadership, social perception, interpersonal attraction and attitudes.

*Prerequisites: General prerequisites, including AS/SC/PSYC 2120 3.0.*

**AS/SC/PSYC 4030 6.0 Behaviour Modification and Behaviour Therapy.** An examination of theoretical issues, basic research and practical application in the area of behaviour change.

*Prerequisites: AS/SC/PSYC 2130 3.0; AS/SC/PSYC 3140 3.0; general prerequisites or registration in the Joint York/Seneca program in Rehabilitation Services.*

**AS/SC/PSYC 4040 6.0 Rehabilitation Psychology.** A seminar course that introduces students to the field of rehabilitation of persons with disability (physical, emotional, developmental) with special emphasis on the contribution of psychology to theory and practice.

*Prerequisites: General prerequisites, including AS/SC/PSYC 2130 3.0 and AS/SC/PSYC 3140 3.0; or written permission of the instructor.*

**AS/SC/PSYC 4050 6.0 Personality Theory and Behaviour Disorders.** A critical review of current concepts of the nature, causes and amelioration of disordered behaviour. Concepts are illustrated with selected examples of both normal and abnormal social behaviour.

*Prerequisites: General prerequisites, including AS/SC/PSYC 2130 3.0 and AS/SC/PSYC 3140 3.0.*

**AS/SC/PSYC 4060 6.0 Psychology of Counselling.** An examination of current theory, practice and research in counselling. Theories of personality change, decision making and vocational development are considered in relation to the counselling process in various settings.

*Prerequisites: AS/SC/PSYC 2130 3.0; AS/SC/PSYC 3140 3.0; general prerequisites or registration in the Joint York/Seneca program in Rehabilitation Services.*

**AS/SC/PSYC 4080 6.0 The Neuropsychology of Abnormal Behaviour.** An examination of the genetic, physiological and anatomical bases of several types of abnormal behaviour. The social, public policy and ethical implications of a neuropsychological view of abnormal behaviour are discussed.

*Prerequisites: General prerequisites, including AS/SC/PSYC 2240 3.0 and AS/SC/PSYC 3140 3.0; or written permission of the instructor.*

**AS/SC/PSYC 4090 6.0 Urban Psychology.** This research-oriented course provides coverage of topics in environmental psychology as applied to psychological aspects of urban behaviour. Topics include methodology, models of urbanism, stress, noise, crowding, territoriality, litter control, cognitive mapping and transportation management.

*Prerequisites: General prerequisites, including AS/SC/PSYC 3450 3.0.*

**AS/SC/PSYC 4110 3.0/4110 6.0 Special Topics in Psychology.** As the need arises, the department offers courses or seminars on particular topics not ordinarily available. Details on the topics covered in different sections of the course are given in the department's supplemental calendar. Some special topics courses may not be eligible for Science (SC) credit.

*Prerequisites: General prerequisites; any additional prerequisites for specific sections are announced in the department's supplemental calendar.*

**AS/PSYC 4120 3.0 Psychology and Literature.** (formerly half of AS/PSYC 4120 6.0 — before 1999-2000) An exploration of issues involved in the interrelationship of psychology and literature in order to enhance the student's understanding and appreciation of human behaviour and experience and of imaginative literature.

*Cross-listed to: AS/HUMA 4610 3.0.*

*Prerequisites: General prerequisites; written permission of the course director.*

*Degree credit exclusions: AS/PSYC 4120 6.0, AS/HUMA 4610 6.0, AS/HUMA 4610 3.0.*

**AS/SC/PSYC 4130 6.0 Psychoanalytic Psychology.** An advanced seminar dealing with selected aspects of Freudian and/or neo-Freudian theory.

*Prerequisites:* General prerequisites, including AS/SC/PSYC 2130 3.0.

**AS/SC/PSYC 4140 6.0 Current Research and Issues in Personality.** A seminar focusing on some of the current and classical issues in personality research and theory, and on some basic personality models. Dissonant research evidence serves as a basis for discussion and debate.

*Prerequisites:* General prerequisites.

**AS/SC/PSYC 4150 6.0 Rigorous Alternatives for Contemporary Psychology.** This course examines the wide range of criticism mounted against contemporary mainstream psychology over the past 25 years and explores in depth several philosophically sophisticated alternative psychological approaches to the study of behaviour and experience.

*Prerequisites:* General prerequisites.

**AS/SC/PSYC 4170 6.0 Advanced Research in Psychology.** As an alternative to independent thesis research (AS/SC/PSYC 4000 6.0), this course offers structure, support and guidance for student research by means of regular seminar meetings. Different sections of the course (described in the department's supplemental calendar) focus on different types of research. Some research topics may not be eligible for Science (SC) credit.

*Prerequisites:* General prerequisites, including AS/SC/PSYC 2020 6.0 (or equivalent) and AS/SC/PSYC 2030 3.0.

*Degree credit exclusion:* AS/SC/PSYC 4000 6.0.

**AS/SC/AK/PSYC 4180 3.0 Seminar in Comparative Cognition.** This seminar course focuses on the various approaches to the study of cognitive processes in non-human animal species. The course includes the study of memory, problem solving, concept formation, the representation of time and number and language acquisition in non-human animals.

*Prerequisites:* 78 credits; including AS/SC/PSYC 2020 6.0 (or both AS/SC/PSYC 2021 3.0 and AS/SC/PSYC 2022 3.0) and six credits chosen from AS/SC/PSYC 2210 3.0, AS/SC/PSYC 3260 3.0, AS/SC/PSYC 3280 3.0.

**AS/SC/PSYC 4220 6.0 Theories of Human Nature.** A critical examination of theories of human nature with special emphasis on psychological theories, cultural and social theories, psycho-analysis, philosophical theories, racial theories and economic theories.

*Prerequisites:* General prerequisites. Open to students after completion of 48 credits with written permission of the instructor.

**AS/SC/PSYC 4230 3.0 Human Performance in Systems.** This seminar course examines the application of systems psychology and human factors to the development and evaluation of complex operational systems. Seminar topics include simulation techniques, function allocation,

human capabilities, task design, personnel selection, evaluation of individual and system performance. Normally offered in alternate years.

*Prerequisites:* General prerequisites or written permission of the instructor.

**AS/SC/PSYC 4460 6.0 Atypical Development.** An examination of problems relating to children with physical, mental, social and emotional problems. An extensive exploration of the nature and causes of the dysfunction and of experimental methods, research findings and current remedial techniques.

*Prerequisites:* General prerequisites, including AS/SC/PSYC 2110 3.0.

**AS/SC/PSYC 4890 3.0/4890 6.0 Independent Study.** Students may arrange to do independent study with members of the Psychology Department. This allows students and professors to work in areas of psychology which lie outside the usual course offerings. Contact the undergraduate office for details.

*Prerequisites:* General prerequisites.

*Note:* Students wishing a half course register in AS/SC/PSYC 4890 3.0. Students may take one full course (or two half courses) in independent study in each academic session. Faculty of Arts students should see the Faculty of Arts section of this Calendar for regulations on "Independent Reading Courses". Some independent study topics may not be eligible for Science (SC) credit.

## Public Policy and Administration – Arts

**Program Office (Department of Political Science):**

S672 Ross, 416-736-5265, Ext. 88839

**Program Coordinator:**

R. Bazowski

**Associated Faculty:**

G. Albo, I. Bakker, R. Bazowski, R. Drummond, C.I. Greene, R. MacDermid, J. Newton, L. Sossin, M. Thomas, R. Whitaker

Public Policy and Administration is a limited-enrolment Specialized Honours BA program. It consists of required courses such as quantitative methods in policy analysis (statistics and research design), public law, economics and public administration.

As the Public Policy and Administration program has many specific course requirements, students are strongly advised to plan their course load in advance. Interested students should apply for admission to the program preferably at the end of their first year. Applications are only accepted in March and April of each year. Candidates must have completed at least 24 credits by the end of the Fall/Winter session in April. An Honours grade point average (C+ or 5.0) is necessary to be considered for the program; however, as enrolment is limited, a slightly higher GPA is generally required. Acceptance letters are

mailed out in June, upon review of each applicant's final grades.

## Departmental and Divisional Courses in Public Policy and Administration

Descriptions of the content and format of these courses are contained in the appropriate departmental and divisional listings in this Calendar. Not all courses will necessarily be offered in any given year; for details of courses to be offered, consult the Director of the program.

*Note:* For specific requirements of this program, please consult the Faculty of Arts "Programs of Study" section.

AS/ECON 1000 3.0 Introduction to Microeconomics.

AS/ECON 1010 3.0 Introduction to Macroeconomics.

AS/POLS 1000 6.0 Introduction to Politics: Exploring the Democratic Experience.

AS/POLS 2040 6.0 Introduction to Political Theory.

AS/POLS 2300 6.0 Introduction to Empirical Theory.

AS/POLS 2610 6.0 Public Policy and Administration.

AS/POLS 3190 6.0 Public Administration.+

AS/POLS 3300 6.0 Statistics for Social Sciences.

AS/POLS 3600 3.0 Public Law I: The Constitution and the Courts in Canada.

AS/POLS 3605 3.0 Public Law II: The Charter of Rights and Freedoms and the Limits of Public Administration.

AS/POLS 3610 6.0 Organization and Administration.+

AS/POLS 4115 6.0 The Political Economy of State Finance.

AS/POLS 4300 6.0 Public Policy Research.

AS/POLS 4995 3.0/4995 6.0 Practicum in Public Administration.

AS/SOCI 3620 6.0 Formal Organizations.+

+ Students must take one of AS/POLS 3190 6.0, or AS/POLS 3610 6.0 or AS/SOCI 3620 6.0.

## Religious Studies – Arts

**Program Office:**

210 Vanier, 416-736-2100, ext. 77389

**Coordinator of the Program:**

A. Buturovic

**Professors:**

D. Bakan, Psychology; M. Bakan, Social Science and Philosophy; M. Brown, Humanities/Languages; K.M.H. Creal, Humanities; D.I. Davies, Sociology; N. DeShane, Fine Arts/Dance; S. Eisen, History; T. Fuse, Social Science; M. Herren, Atkinson/Humanities and Classics; K. Ishwaran, Sociology; M.P. Maidman, History and Languages; S. Mason, Humanities; J. Nagata, Anthropology; B.N. Olshen, Glendon/Multidisciplinary Studies; L.B. Polka, History and Humanities; J. Stuckey, Humanities; S. Tweyman, Humanities and Glendon/Philosophy; P. Van

Esterik, Anthropology; B. Wilson, Atkinson/  
Humanities and Philosophy.

#### Associate Professors:

R.E. Chace, History and Humanities;  
C. Ehrlich, Humanities; T. Goossen,  
Humanities; P. Gray, Atkinson/Humanities;  
G. Hopton, Atkinson/Humanities;  
S. Horowitz, Humanities/Languages;  
D.M. Johnson, Philosophy; E. Kallen, Social  
Science; B. Lightman, Humanities;  
M. Lockshin, Humanities and Languages  
J.D. Paper, Humanities; R. Perry, Fine Arts/  
Visual Arts; R. S. Schneider, History and  
Humanities; S. Schoenfeld, Glendon/  
Sociology; J.S. Scott, Humanities;  
S. Tanenzapf, Humanities; P. Taylor,  
Humanities; G.E. Thaiss, Anthropology;  
M. Webber, Languages/Humanities;  
W.E. Westfall, Humanities and Atkinson/  
History; B. Zelechow, Humanities/History.

#### Assistant Professors:

T. Abdullah, History; A. Buturovic,  
Humanities; J. Gibson, Atkinson/  
Humanities; E. Lawee, Humanities; B. Lee,  
Humanities/Women's Studies; J. Van  
Esterik, Anthropology.

Religious Studies invites students to join in  
current scholarly efforts to describe and to  
understand forms of religious experience. One  
of the master keys to the understanding of  
human behaviour and thought, religious  
experience is open to examination from a  
variety of disciplinary perspectives.

In the core course, students will be introduced  
to various disciplinary perspectives.  
Afterwards they may choose to specialize in  
one tradition – e.g. Judaism, Christianity,  
Islam, or Eastern Religions – or they may  
continue to take a comparative approach.  
Students will, however, be expected to acquire  
breadth both in disciplinary approach and in  
subject matter.

Religious Studies has traditionally been a  
small program, which emphasizes personal  
contact between its majors and the faculty  
participating in the program.

*Note: For specific requirements of the various  
degree programs in Religious Studies, please  
consult the Faculty of Arts "Programs of Study"  
section.*

### Courses in Religious Studies

*Note: For purposes of meeting program  
requirements, all Foundations courses will  
count as six credits towards the major.*

Descriptions of the content and format of these  
courses are contained in the appropriate  
departmental and divisional listings in this  
Calendar. Not all courses will necessarily be  
offered in any given year; additional courses in  
several departments given as special topics  
are acceptable as program courses. For details  
of courses to be offered, consult the  
coordinator. Complete descriptions and  
reading lists are given in the Religious Studies  
supplementary calendar, available each  
spring.

**AS/HUMA 2800 9.0/SOSC 2600 9.0**  
**Introduction to the Study of Religion.** This  
course places the classic expressions of  
religion in their social and cultural contexts. It  
employs different humanistic and social  
science disciplinary tools and deals with  
important methodological questions in the  
study of religion.

AS/ANTH 2140 6.0 Introduction to  
Archaeology and Paleoanthropology.  
AS/ANTH 2150 6.0 Early Civilizations: Cities,  
Urbanism and Early States.  
AS/ANTH 2180 3.0 Social Anthropology of the  
Middle East.  
AS/ANTH 3000A 3.0 Psychics, Skeptics and  
Pseudoscience: A Cultural Critique of New  
Age.  
AS/ANTH 3200 3.0 Millenarian and Utopian  
Religious Movements.  
AS/ANTH 3320 6.0 Religious Ritual and  
Symbolism.  
AS/ANTH 3350 6.0 Culture as Performance.  
AS/ANTH 4200J 6.0 Selected Topics in Social  
Anthropology: Religious Movements in Global  
Perspective.  
AS/GEOG 4250 3.0 Geography and  
Landscape in Secular and Religious Literature.  
AS/HEB 3230 3.0 The Literature of Celebration  
and Commemoration.  
AS/HEB 3320 3.0 Exodus: Texts and Classical  
Interpretation.  
AS/HEB 3330 3.0 Deuteronomy: Texts and  
Classical Interpretation.  
AS/HEB 3360 3.0 Prophetic Literature: Texts  
and Classical Interpretation.  
AS/HEB 3370 3.0 Hagiographical Literature:  
Texts and Classical Interpretation.  
AS/HEB 3500 6.0 The Hebrew Revival:  
Language and Literature.  
AS/HEB 3600 6.0 Themes in Modern Israeli  
Literature and Society.  
AS/HEB 3710 3.0 Diaspora, Home, Nostalgia:  
Modern Jewish Women's Literature.  
AS/HEB 3770 3.0 Inventing Israel: Culture,  
Crisis and Continuity in Israeli Literature.  
AS/HEB 3800 6.0 Special Topics in Hebrew.  
AS/HEB 4300 6.0 Talmudic Literature.  
AS/HIST 2110 6.0 The Ancient Near East.  
AS/HIST 3111 6.0 Practicum in Biblical  
Archaeology (Cross-listed to: AS/HUMA  
3000N 6.0).  
AS/HIST 3555 6.0 Canadian Jewish History.  
AS/HIST 3809 6.0 History of the Christian  
Church: Beginnings to the Reformation.  
AS/HIST 3810 6.0 History of the Christian  
Church: Reformation to the Present.  
AS/HIST 3860 6.0 Modern History of the Jews.  
AS/HIST 4100 6.0 Selected Problems in  
Israelite History.  
AS/HIST 4220 6.0 Iconological Method in the  
Study of Medieval Manuscript Illustration.  
(Cross-listed to: AS/HUMA 4735 6.0, FA/VISA  
4930 6.0)  
AS/HIST 4225 6.0 Church, Mosque and  
Synagogue: Jews, Muslims and Christians in  
Medieval Spain. (Cross-listed to: AS/HUMA  
4000V 6.0)  
AS/HIST 4410 6.0 Religion and Science in  
Victorian England.  
AS/HUMA 1100 9.0 Worlds of Ancient Greece  
and Rome.

AS/HUMA 1110 9.0 Greek and Biblical Traditions.  
AS/HUMA 1300 9.0 Cultures of the Resistance in  
the Americas.  
AK/HUMA 1710 6.0 Roots of Western Culture:  
The Ancient World.  
AS/HUMA 1850 6.0 The Bible and Modern  
Knowledge. (Equivalent to: AK/HUMA 1850 6.0)  
AS/HUMA 2410 6.0 Chinese Art, Poetry and  
Religion.  
AS/HUMA 2810 6.0 The Hebrew Bible.  
AS/HUMA 2815 9.0 Islamic Traditions.  
AS/HUMA 2830 9.0 Founders of Christianity.  
AS/HUMA 2840 6.0 Perspectives on  
Contemporary Moral Issues.  
AS/HUMA 2850 9.0 The Jewish Experience:  
Symbiosis and Rejection.  
AS/HUMA 2851 3.0 The Jewish Experience:  
Symbiosis and Rejection, From Antiquity to the  
Middle Ages.  
AS/HUMA 2852 3.0 The Jewish Experience:  
Symbiosis and Rejection, From the Middle Ages  
to the Present.  
AS/HUMA 3000B 3.0 Cult and Culture in Ancient  
Canaan: A Survey of "Biblical" Archeology.  
AS/HUMA 3000D 6.0 Religion, Gender and  
Korean Culture.  
AS/HUMA 3000E 3.0 Moses Maimonides:  
Philosopher and Theologian.  
AS/HUMA 3000N 6.0 Practicum in Biblical  
Archaeology (Cross-listed to: AS/HIST 3111 6.0).  
AS/HUMA 3000Q 6.0 Church, Mosque and  
Synagogue: Jews, Muslims and Christians in  
Medieval Spain.  
AS/HUMA 3000R 6.0 Imagining the Worst:  
Responses to the Holocaust.  
AS/HUMA 3000S 6.0 Diaspora, Home, Nostalgia:  
Modern Jewish Literature.  
AS/HUMA 3100 6.0 Greek Drama and Culture.  
AS/HUMA 3340 6.0 From Alien to Archetype:  
Jews in North America.  
AK/HUMA 3430 6.0 The Making of Christianity  
and Christendom. (Degree credit exclusion: AS/  
HUMA 3785 6.0)  
AK/HUMA 3433 3.0 Exploring the Lands of the  
Bible, Part 1.  
AK/HUMA 3434 3.0 Exploring the Lands of the  
Bible, Part 2.  
AK/HUMA 3500 6.0 Science and Religion.  
AK/HUMA 3600 6.0 Myths and Their Meanings.  
AK/HUMA 3605J 3.0 Augustine.  
GL/HUMA 3660 6.0 Religion and Morality in the  
Ancient World.  
AK/HUMA 3750 6.0 Comparative Study of  
Religions.  
AK/HUMA 3760 6.0 Theology and Culture in the  
20th Century.  
AS/HUMA 3782 6.0 Christian Thought from 1500  
to 1830.  
AS/HUMA 3785 6.0 The Making of Christianity  
and Christendom. (Degree credit exclusion: AK/  
HUMA 3430 6.0)  
AS/HUMA 3790 6.0 Jesus and Interpretation.  
GL/HUMA 3790 6.0 The Torah: Five Books of  
Moses.  
AS/HUMA 3800 6.0 Contemporary Religious  
Thought.  
AK/HUMA 3800 6.0 Satire, Utopia and Society.  
AS/HUMA 3805 6.0 Religious Belief and  
Philosophical Thought in the 20th Century.  
AS/HUMA 3810 6.0 Interpretations of Reality.  
AS/HUMA 3830 6.0 Israelite Prophecy.  
AS/HUMA 3835 6.0 Medieval Jewish Thought.

AS/HUMA 3840 6.0 Rabbinic Judaism: Thought and Institutions.  
 AK/HUMA 3840 6.0 The Early Roman Empire and the Rise of Christianity.  
 AK/HUMA 3850 6.0 Issues and Themes in Medieval Culture.  
 AS/HUMA 3860 6.0 Mysticism: East and West.  
 AS/HUMA 3870 3.0 Religions of Native American Peoples.  
 AS/HUMA 3880 6.0 On Values.  
 AS/HUMA 3930 6.0 Woman, Myth and Religion.  
 AK/HUMA 3950 6.0 Interpreting the Hebrew Bible: Old Testament.  
 AK/HUMA 3955 6.0 Interpreting the New Testament.  
 AK/HUMA 3960 6.0 The Development of Jewish Thought and Literature.  
 AS//HUMA 4000V 6.0 Church, Mosque and Synagogue: Jews, Muslims and Christians in Medieval Spain. (Cross-listed to: AS/HIST 4225 6.0)  
 AS/HUMA 4310A 6.0 Religion and Politics in the Caribbean.  
 AK/HUMA 4630 6.0 Studies in Interpretation.  
 AS/HUMA 4735 6.0 Iconological Method in the Study of Medieval Manuscript Illustration. (Cross-listed to: AS/HIST 4220 6.0, FA/VISA 4930 6.0)  
 AS/HUMA 4740 6.0 The Sacred and the Arts.  
 GL/HUMA 4790 3.0 Studies in the Hebrew Bible: Poetry.  
 GL/HUMA 4795 3.0 Studies in the Hebrew Bible: Prophetic Books.  
 AS/HUMA 4800 6.0 Parables of Jesus.  
 AS/HUMA 4820C 6.0 Problems in the Study of Judaism.  
 AS/HUMA 4890C 6.0 Women in Islamic Literatures.  
 AS/IT 4330 6.0 Dante and Medieval Italian Literature.  
 AS/PHIL 2090 3.0 Philosophy of Religion.  
 AS/PHIL 2120 3.0 Existentialism.  
 GL/PHIL 2920 3.0 History of Ethics.  
 AS/PHIL 3095 3.0 Philosophy of Religion.  
 AS/PHIL 3125 6.0 Contemporary Existentialism.  
 AK/PHIL 3440 6.0 Medieval Philosophy.  
 AK/PHIL 3650 6.0 Philosophy of Religion.  
 GL/PHIL 3931 3.0 Philosophy of Religion.  
 AS/PHIL 4030M 3.0 Topics in Ancient Philosophy.  
 GL/SOCI 3600 3.0 Women and Religion.  
 GL/SOCI 3640 6.0 Jewish Identity in the Modern World.  
 AS/SOCI 3650 6.0 Sociology of Religion.  
 AS/SOSC 2430 6.0 Peoples and Cultures of Southeast Asia.  
 AS/SOSC 2480 9.0 Introduction to African Studies.  
 AS/SOSC 3120 6.0 Suicide and Culture in Comparative Perspective.  
 AS/SOSC 3960 6.0 Interethnic Relations and the Jewish Minorities.  
 AS/SOSC 3990G 6.0 The Sephardi Jews: A Sociological Analysis of Their Survival.  
 AS/PSYC 3460 3.0 Psychology of Religion.  
 FA/VISA 1340 6.0 Survey of Art of Asia.  
 FA/VISA 3341 6.0 The Art of India.  
 FA/VISA 4340 6.0 Asian Art: Zen Painting and Poetry.  
 FA/VISA 4930 6.0 Iconological Method in the Study of Medieval Manuscript Illustration. (Cross-listed to: AS/HIST 4220 6.0, AS/HUMA 4735 6.0)

## Ancillary Courses

The courses listed below do not qualify automatically for program credit. However, if approved by a Faculty adviser as useful for an individual's program of study, these courses will count towards the major.

AS/GK 1000 6.0 Elementary Classical Greek.  
 AK/GK 1400 6.0 Introductory Classical Greek.  
 AK/GK 2420 6.0 Biblical Greek.  
 AS/HEB 1000 6.0 Elementary Modern Hebrew, Level I.  
 AS/HEB 1010 6.0 Elementary Modern Hebrew Level II.  
 AS/HEB 2010 6.0 Intermediate Modern Hebrew.  
 AS/HEB 3000 6.0 Advanced Modern Hebrew.  
 AS/LA 1000 6.0 Elementary Latin.  
 AK/LA 1400 6.0 Introductory Latin.  
 AK/LA 2430 6.0 Intermediate Latin: Medieval.

## Science and Society – Arts

*Note: The Science and Society program was formerly called the Science, Technology, Culture and Society program.*

### Program Office (Division of Humanities):

205 Bethune, 416-736-5164

### Coordinator of the Program:

B. Lightman, 416-736-2100 ext. 22028

The Science and Society program provides students with the opportunity to study the place of modern science and technology in human culture and society from an integrated, critical and interdisciplinary perspective. The program includes courses dealing with the history, philosophy and sociology of the mathematical, physical, biological and social sciences, as well as the social, cultural and intellectual contexts which both shaped and were shaped by thinking in those fields. Themes and areas of concentration include: 1) Science, Technology and Social Change; 2) History and Philosophy of Science, Technology and the Social Sciences; 3) Science, Technology and Humanistic Thought; 4) Science, Technology and the Arts.

The Science and Society program equips students with a broad interdisciplinary education which prepares them for all types of careers. Graduating students will have the same postgraduate opportunities as those possessing an Honours BA in Arts fields – i.e. an opportunity to enter professional schools or graduate programs. Students who graduate from the Science and Society program will be especially qualified to pursue graduate work in graduate programs in History and Philosophy of Science, as well as their congruent disciplines. Graduate of this program are well equipped for further studies in law, medicine, education, journalism and environmental policy.

## Departmental and Divisional Courses

*Note: For specific requirements of this program, please consult the Faculty of Arts "Programs of Study" section.*

*Note: Not all courses will necessarily be offered in any given year; for details of courses to be offered, consult the mini-calendar of the divisions of Social Science and Humanities or the Science and Society supplementary calendar.*

*Note: For purposes of meeting program requirements, all Foundations courses will count as six credits towards the major.*

## Anthropology

AS/ANTH 3090 6.0 Gender, Science and Society.  
 AS/ANTH 3150 6.0 Culture, Evolution and Ecology.  
 AS/ANTH 3280 6.0 Psychiatric Anthropology and Social Stress.

## Geography

AS/GEOG 4130 3.0 The History and Theory of Geography.

## History

AS/HIST 3785 6.0 Science, Technology and Society in Chinese History.  
 AS/HIST 3880 6.0 Medicine and North American Society in Historical Perspective. (Cross-listed to: AS/SOSC 3090 6.0)  
 AS/HIST 4410 6.0 Science and Religion in Victorian England.  
 AS/HIST 4800 6.0 The Science of Society: Social Thought in North America 1890-1940. (Cross-listed to: AS/HUMA 4220 6.0)

## Humanities

AS/HUMA 1910 9.0 Science and the Humanities.  
 AS/HUMA 2915 9.0 Darwin, Einstein and the Humanities.  
 AS/HUMA 3970 6.0 Science and Gender in Modern Western Culture.  
 AS/HUMA 4220 6.0 The Science of Society: Social Thought in North America 1890-1940. (Cross-listed to: AS/HIST 4800 6.0)  
 AS/HUMA 4225 6.0 Topics in Science in Cultural Context.

## Mathematics

AS/MATH 3100 3.0 Famous Problems in Mathematics.  
 AS/MATH 3500 6.0 Mathematics in the History of Culture.  
 AS/MATH 4400 6.0 The History of Mathematics.

## Philosophy

AS/PHIL 2110 3.0 Truth, Theory and Superstition.  
 AS/PHIL 3170 3.0 Philosophy of Science.  
 AS/PHIL 3270 6.0 Philosophy of Social Science.  
 AS/PHIL 4110 3.0/4110 6.0 Topics in the Philosophy of Science.  
 AS/PHIL 4130 3.0/4130 6.0 Topics in the Philosophy of Nature.

## Political Science

AS/POLS 4660 3.0 Science, Policy and the Legal Process.

## Psychology

AS/PSYC 3470 3.0 Introduction to the History of Psychology.

## Social Science

AS/SOSC 2040 9.0 Nature and Human Nature.

AS/SOSC 3050 6.0 Controversial Issues in Social Science.

AS/SOSC 3090 6.0 Medicine and North American Society in Historical Perspective. (Cross-listed to: AS/HIST 3880 6.0)

AS/SOSC 3510 6.0 Social Evolution: Problems and Perspectives.

## Sociology

AS/SOCI 4910 6.0 The Sociology of Knowledge.

AS/SOCI 4930 6.0 Sociology of Science and Technology.

## Faculty of Pure and Applied Science Courses

## Biology

SC/BIOL 4300 3.0 Origins and Development of Biological Theories.

## Atkinson Courses

## Humanities

AK/HUMA 3350 6.0 Nature in Narrative.

AK/HUMA 3500 6.0 Science and Religion.

## Philosophy

AK/PHIL 3500 6.0 Philosophical Issues in the Natural Sciences.

## Science Studies

AK/STS 1010 6.0 Introduction to Science and Technology Studies.

AK/STS 2010 6.0 History of Modern Science.

AK/STS 3700 3.0/3700 6.0 Selected Topics in Science and Technology Studies.

AK/STS 3730 6.0 Science, Religion and Ethics.

AK/STS 3740 6.0 Controversies in Environmental Science.

AK/STS 3750 6.0 Evolution and Society.

AK/STS 3770 6.0 Issues in the Modern Physical Sciences.

AK/STS 3780 6.0 Biomedical Science in Social Context.

AK/STS 4700 6.0 Independent Research in Science and Technology Studies.

AS/STS 4710 6.0 Honours Thesis in Science and Technology Studies.

AK/STS 4720 6.0 Seminar in the Social Studies of Science.

AK/STS 4740 6.0 Science, Technology and the Environment in Canada.

## Social Science

AK/SOSC 3300 6.0 New Technology and Social Change.

## Glendon Courses

## History

GL/HIST 2910 6.0 Medieval Technology, Practice and Theory. (Cross-listed to: GL/NATS 2910 6.0)

GL/HIST 2920B 6.0 Medieval Science: Thought and Practice. (Cross-listed to: GL/NATS 2920 6.0)

GL/HIST 3630 6.0 Science and Culture: 18th and 19th Centuries. (Cross-listed to: GL/NATS 3630 6.0)

GL/HIST 3660 3.0 Biology in History. (Cross-listed to: GL/NATS 3660 3.0)

GL/HIST 4600 6.0 Topics in the History of Science. (Cross-listed to: GL/NATS 4600 6.0)

## Natural Science

GL/NATS 1400 6.0 Science, Faith and Science Fiction.

GL/NATS 2910 6.0 Medieval Technology, Practice and Theory. (Cross-listed to: GL/HIST 2910 6.0)

GL/NATS 2920 6.0 Medieval Science: Thought and Practice. (Cross-listed to: GL/HIST 2920 6.0)

GL/NATS 3630 6.0 Science and Culture: 18th and 19th Centuries. (Cross-listed to: GL/HIST 3630 6.0)

GL/NATS 3657 3.0 Reproductive Technology.

GL/NATS 3658 3.0 Genetic Technology: Its Applications to Industry, Medicine and Agriculture.

GL/NATS 3660 3.0 Biology in History. (Cross-listed to: GL/HIST 3660 3.0)

GL/NATS 3970 6.0 Socio-politics of Science. (Cross-listed to: GL/POLS 3970 6.0)

GL/NATS 4600 6.0 Topics in the History of Science. (Cross-listed to: GL/HIST 4600 6.0)

GL/NATS 4630 6.0 Revolutions in Science and Politics (Cross-listed to: GL/POLS 4630 6.0)

## Political Science

GL/POLS 3970 6.0 Socio-politics of Science. (Cross-listed to: GL/NATS 3970 6.0)

GL/POLS 4630 6.0 Revolutions in Science and Politics (Cross-listed to: GL/NATS 4630 6.0)

## Environmental Studies Courses

ES/ENVS 2100 3.0 Foundations of Nature, Technology and Society.

ES/ENVS 3000 3.0 Environmental Ethics.

ES/ENVS 3110 3.0 Science and the Environment

ES/ENVS 3120 3.0 Environmental History.

ES/ENVS 4120 3.0 Natural History.

ES/ENVS 4140 3.0 Environmental Thought.

## Social and Political Thought – Arts

### Program Office:

S741 Ross, 416-736-5054

### Coordinator of the Program:

R. Wellen, 306 Calumet College,  
416-736-2100, ext. 33826

### Advisers:

M.A. Gilbert, Philosophy; K. Anderson,  
Sociology; I. Greene, Political Science;

T.V. Cohen, History; G. Thaiss, Anthropology

The Honours Double Major Interdisciplinary BA program in Social and Political Thought is concerned with the interdisciplinary study of human community — its nature, history and foreseeable futures. The program is open to students who wish to combine Social and Political Thought with another discipline such as Anthropology, History, Political Science, Philosophy or Sociology. More specifically, it is intended for those students whose breadth of focus is such that they would like to view the social and political situation of contemporary societies, both substantively and theoretically, from a plurality of humanistic and social scientific perspectives.

## Departmental and Divisional Courses in Social and Political Thought

*Note: For specific requirements of this program, please consult the Faculty of Arts "Programs of Study" section.*

*Note: Not all courses will be necessarily offered in any given year; for details of courses to be offered, consult the Social Science supplemental calendar, available from the division office, S748 Ross.*

*Note: For purposes of meeting program requirements, all Foundations courses will count as six credits towards the major.*

AS/ANTH 2100 6.0 One World, Many Peoples.

AS/ANTH 2180 3.0 Social Anthropology of the Middle East

AS/ANTH 3320 6.0 Religious Ritual and Symbolism.

AS/ANTH 3350 6.0 Culture as Performance.

AS/ANTH 3450 3.0 Negotiations and Bargaining.

AS/ANTH 4110 6.0 Development of Theory in Social Anthropology.

AS/HIST 2100 6.0 Ancient Greece and Rome.

AS/HIST 2220 6.0 Medieval and Early Modern Europe.

AS/HIST 2300 6.0 Modern Europe.

AS/HIST 2710 6.0 East Asia: Tradition and Defiance.

AS/HIST 3000 6.0 Contemporary History: Theory and Practice.

AS/HIST 3120 6.0 Foundations of Athenian Democracy.

AS/HIST 3233 6.0 Women in Medieval and Early Modern Europe.

AS/HIST 3440 6.0 Victorian Culture and Society.

AS/HIST 3531 6.0 Working Class in Canadian Society. (Cross-listed to: SOSC 3210 6.0)

AS/HIST 3533 6.0 The History of Women in Canada.

AS/HIST 3543 3.0 Quebec: The Pre-Industrial Era.

AS/HIST 3544 3.0 Quebec: The Industrial Era.

AS/HIST 3710 6.0 Ideology, Politics and Revolution in the Caribbean.

AS/HIST 3810 6.0 Reformation to the Present. (Cross-listed to: AS/HUMA 3781 6.0)

AS/HIST 4350 6.0 European Thought in Crisis.

AS/HIST 4370 6.0 East European Nationalism and Independence.

AS/HIST 4750 6.0 Backwardness and Revolution in Latin America. (Cross-listed to: AK/HIST 4109A 6.0)

AS/HIST 4800 6.0 The Science of Society: Social Thought in North America, 1890-1940.  
 AS/HUMA 2100 6.0 The World of Ancient Greeks.  
 AS/HUMA 2160 9.0 Romanticism and Its Legacy.  
 AS/HUMA 2800 9.0 Introduction to the Study of Religion. (Cross-listed to: AS/SOSC 2600 9.0)  
 AS/HUMA 2915 9.0 Darwin, Einstein and the Humanities.  
 AS/HUMA 2930 9.0 On Woman: Introduction to Women's Studies. (Cross-listed to: AS/AK/GL/WMST 2510 9.0, AS/SOSC 2180 9.0)  
 AS/HUMA 3781 6.0 Reformation to the Present. (Cross-listed to: AS/HIST 3810 6.0)  
 AS/HUMA 3805 6.0 Religious Belief and Philosophical Thought in the 20th Century.  
 AS/HUMA 3920 6.0 Technology, Communication and Culture.  
 AS/HUMA 4000H 6.0 Deconstructing Postmodernism.  
 AS/HUMA 4160 6.0 Madness and Culture.  
 AS/PHIL 2010 3.0 Origins of Western Philosophy. (Cross-listed to: AK/PHIL 2010 3.0)  
 AS/PHIL 2015 3.0 Plato and Aristotle.  
 AS/PHIL 2020 3.0 Reason, God and the Mind.  
 AS/PHIL 2025 3.0 Experience, World and the Self.  
 AS/PHIL 2050 6.0 Philosophy of Law.  
 AS/PHIL 2060 3.0 Social and Political Philosophy. (Cross-listed to: AK/PHIL 2060 3.0)  
 AS/PHIL 2070 3.0 Introductory Ethics.  
 AS/PHIL 2075 3.0 Introduction to Applied Ethics.  
 AS/PHIL 2120 3.0 Existentialism.  
 AS/PHIL 2250 3.0 Philosophy of Gender and Sexuality. (Cross-listed to: AK/PHIL 2250 3.0)  
 AS/PHIL 3110 3.0 Political Philosophy. (Cross-listed to: AK/PHIL 3110 3.0)  
 AS/PHIL 3120 3.0 Early Existentialism.  
 AS/PHIL 3125 3.0 Contemporary Existentialism.  
 AS/PHIL 3220 3.0 Argumentation Theory.  
 AS/PHIL 3260 3.0 Philosophical Foundations of Cognitive Science.  
 AS/PHIL 3265 3.0 Philosophy of Mind.  
 AS/PHIL 3270 3.0 Philosophy of Social Science.  
 AS/PHIL 3640 3.0 German Philosophy. (Cross-listed to: AK/PHIL 3640 3.0)  
 AS/PHIL 4010C 3.0 Topics in Historical Philosophy: Hegel.  
 AS/PHIL 4050A 3.0 Topics in the Philosophy of History.  
 AS/POLS 2040 6.0 Introduction to Political Theory.  
 AS/POLS 3020 3.0 Political Thought of the Renaissance and Reformation.  
 AS/POLS 3025 3.0 17th-Century Political Theory.  
 AS/POLS 3040 3.0 Early 20th-Century Political Thought.  
 AS/POLS 3070 3.0 Psychology and Politics.  
 AS/POLS 3075 3.0 Law, Justice and Jurisprudence.  
 AS/POLS 3080 3.0 American Political Thought.  
 AS/POLS 3270 3.0 Global Political Economy I: Theory and Approaches.  
 AS/POLS 3275 3.0 Global Political Economy II: Issues and Problems Since 1945.  
 AS/POLS 3450 3.0 Women and Politics. (Cross-listed to: AS/AK/GL/WMST 3516 3.0 and AS/SOSC 3170 3.0)  
 AS/POLS 3455 3.0 Topics in Women and Politics. (Cross-listed to: AS/AK/GL/WMST 3517 3.0 and AS/SOSC 3175 3.0)  
 AS/POLS 4015 3.0 Theories of Justice.  
 AS/POLS 4025 3.0 Freedom and Equality.  
 AS/POLS 4030 3.0 Classical Political Theory.

AS/POLS 4035 6.0 The Emergence of Modernity.  
 AS/POLS 4090 3.0 Classical Marxist Theory.  
 AS/POLS 4200 6.0 International Relations Theory.  
 AS/POLS 4605 3.0 Ethical Politics.  
 AS/SOCI 2040 6.0 Sociological Theory.  
 AS/SOCI 3020 6.0 Classic Sociological Texts.  
 AS/SOCI 3340 6.0 Social Change.  
 AS/SOCI 3640 6.0 Political Sociology.  
 AS/SOCI 4600 6.0 Feminist Theories and Methodologies.  
 AS/SOCI 4910 6.0 Sociology of Knowledge.  
 AS/SOSC 2100 6.0 Social Relations: Ideas and Actions.  
 AS/SOSC 2112 6.0 The Political Economy of Health.  
 AS/SOSC 2180 9.0 AS/HUMA 2930 9.0 On Woman: Introduction to Women's Studies. (Cross-listed to: AS/AK/GL/WMST 2510 9.0, AS/HUMA 2930 9.0)  
 AS/SOSC 2520 6.0 Foundations of Political Economy.

**AS/SOSC 2550 6.0 Contemporary Theories in Social and Political Thought.** This is the introductory core course in the program in Social and Political Thought and is required of all students in their first year of enrolment in the program. The course is also open, however, to other interested students. The course aims at an explication of the main historical, philosophic and social scientific themes relevant to an understanding of the nature of "society," especially modern and contemporary Western society.

AS/SOSC 2560 6.0 Ideology and Reality.

**AS/SOSC 2570 9.0 Perspectives On Human Nature and Political Thought.** How is human nature related to the problems of social and political life? This course deals with this question through an engagement with important texts in social and political thought and recent controversies about gender, ethics, technological change and postmodernism.

*Degree credit exclusion: AS/SOSC 2570 6.0.*

AS/SOSC 2600 9.0 Introduction to the Study of Religion. (Cross-listed to: AS/HUMA 2800 9.0)  
 AS/SOSC 2830 9.0 Music and Society.  
 AS/SOSC 2840 6.0 Film and Society.  
 AS/SOSC 3050 6.0 Controversial Research in the Social Sciences.  
 AS/SOSC 3120 6.0 To Be Or Not To Be: Suicide and Culture in Comparative Perspective.  
 AS/SOSC 3140 6.0 Psychotherapy and the Arts.  
 AS/SOSC 3170 3.0 Women and Politics. (Cross-listed to: AS/AK/GL/WMST 3516 3.0 and AS/POLS 3450 3.0)  
 AS/SOSC 3175 3.0 Topics in Women and Politics. (Cross-listed to: AS/AK/GL/WMST 3517 3.0 and AS/POLS 3455 3.0)  
 AS/SOSC 3210 6.0 Working Class in Canadian Society. (Cross-listed to: AS/HIST 3531 6.0)  
 AS/SOSC 3280 3.0 The Political Economy of Labour in Canada.  
 AS/SOSC 3410 6.0 The Political Economy of Latin America and the Caribbean.

AS/SOSC 3480 6.0 Culture, Democracy and Development in Africa.  
 AS/SOSC 3510 6.0 Social Evolution: Problems and Prospects.  
 AS/SOSC 3540 6.0 The Political Economy of Food.  
 AS/SOSC 3542 6.0 Comparative Economic Systems.  
 AS/SOSC 3550 6.0 Modernity at the Millennium.  
 AS/SOSC 3590 6.0 The Foundations of Political Economy.  
 AS/SOSC 3820 6.0 The Social and Political Dimensions of Humour.  
 AS/SOSC 3930 6.0 University and Society.  
 AS/SOSC 3990K 6.0 Bulls and Bears: The Psychology of Financial Markets.  
 AS/SOSC 4050 6.0 Animals and People.  
 AS/SOSC 4160 6.0 Feminist Theory. (Cross-listed to: AS/AK/GL/WMST 4500 6.0)  
 AS/SOSC 4500 6.0 The Emergence of Modernity.

**AS/SOSC 4550 6.0 Problems in Social and Political Thought.** This seminar is recommended to, but not required of, students in the program in Social and Political Thought. It is also open, however, to interested students outside the program. The seminar deals each year with a different theme or problem and aims at its elucidation through an interdisciplinary perspective.

AS/SOSC 4570 6.0 Phenomenology, Psychoanalysis and Political Economy.  
 AS/SOSC 4990K 6.0 Social Theory and the Human Mind.  
 AS/SOSC 4990S 6.0 The Underside of Progress.

## Social Science – Arts

### Division Office:

S748 Ross, 416-736-5054

### Chair of the Division:

M.L. Craven

### Professors:

P. Axelrod, H. Flakierski, T. Fuse, J.A. Hellman, H. Kaplan, C. Lipsig-Mumme, B.H. Massam, A.L. Murray, D. Noble, P. Roazen, A. Siegel, J. Warwick

### Professors Emeriti:

W.W. Anderson, T. Fuse, H. Flakierski, E. Kallen, A. Siegel, M. Waters

### Associate Professors:

J. Allett, C.J. Banfield, L. Briskin, J. Caulfield, M.L. Craven, P. Craven, J.T. Durlak, G. Fallis, G. Feldberg, F.J. Frisken, C.P. Furedy, R.W. Grant, C. Heron, J.A. Hutcheson, L. Jacobs, D.A. Kehoe, G. Kellough, L. Lam, S.K. Levine, J. Llabias-Wolff, P. McDermott, C. Nichols, L. Peake, I. Rajagopal, J.B. Ridpath, H. Rosenberg, R. Schlesinger, A. Sekyi-Otu, P. Stamp, R. Weisman, E. Winslow

### Assistant Professors:

V. Agnew, P. Antze, E.S. Baar, B. Beardwood, H. Breslow, S. Chawla, J. Gibbons, J. Gittins, E. Isin, M.J. Keall, S. Mumm, E. Seaton, G. Stubos, W. Swanson, G. Vise

## Courses in Social Science

*Note: For specific requirements of programs offered by this division, please consult the Faculty of Arts "Programs of Study" section.*

The Division of Social Science offers a wide range of interdisciplinary general education courses. Many of these courses are offered in conjunction with Honours Double Major Interdisciplinary BA programs which are housed in the division. Some courses have restricted entry but most courses are open to students who are not majors in an Honours BA degree program.

Not all courses are necessarily offered in all years. For information about specific offerings students should consult the supplementary calendars available in the spring from the division office, S741 Ross.

Courses are offered within the following list of subject areas:

- General Introduction-methods
- Education, Social Work, Family Studies
- African Studies
- Business and Society
- Canadian Studies
- Communication Studies
- Health and Society
- Information Technology
- Labour Studies
- Law and Society
- Science and Society
- Social and Political Thought
- Social and Political Thought—Political Economy
- Social and Political Thought—Arts and Society
- Urban Studies
- Women's Studies

The Division of Social Science also offers a number of courses in connection with programs which are housed elsewhere.

- Latin American-Caribbean Studies
- Religious Studies
- Jewish Studies

### I. 1000-Level Courses

Selected 1000- and 2000-level courses offered through the Division of Social Science are a part of the Faculty of Arts Foundation program. These courses have a nine-credit value and are affiliated with one of the Arts colleges. As a part of the General Education requirement of the Faculty of Arts, these courses introduce students to interdisciplinary study and emphasize critical thinking, reading and writing skills at the university level.

**AS/SOSC 1000 9.0 An Introduction to the Social Sciences.** The course considers the distinctive characteristics of modern society including the impact of modernization on the family, religion, economic behaviour, politics and belief systems. It introduces many of the major concepts social scientists use in analyzing how society works. (This course is affiliated with Calumet College.)

*Degree credit exclusions: AS/SOSC 1000 6.0, AS/SOSC 1009 9.0.*

**AS/SOSC 1012 9.0 Understanding Social Theory.** This course provides an interdisciplinary perspective on the emergence of social theory from political theory, philosophy and economics. It presents the roles in this process of ancient philosophy and political theory, and of their counterparts in early modern thought. (This course is affiliated with Stong College.)

**AS/SOSC 1130 9.0 International Migration.** The course examines why people leave their native lands and what becomes of them in the countries to which they immigrate, with particular reference to the impact of the immigrant on the host country, using Canadian examples. (This course is affiliated with McLaughlin College.)

*Degree credit exclusions: AS/SOSC 1130 6.0, AS/SOSC 1139 9.0.*

**AS/SOSC 1140 9.0 Self, Culture and Society: The Problem of Personal Identity.**

The course concerns the development of concepts of culture by which individuals seek to understand themselves and the world about them, using materials from anthropology, sociology and philosophy, and with the aim of developing a critique of our own situation. (This course is affiliated with McLaughlin College.)

*Degree credit exclusion: AS/SOSC 1140 6.0.*

**AS/SOSC 1185 9.0 Women and Society.**

This course examines images of women and explores women's experiences in the family, in school, at the workplace and in relation to the issues of poverty, violence, health and sexuality. (This course is affiliated with Stong College.)

*Degree credit exclusion: AS/SOSC 1180 6.0.*

**AS/SOSC 1188 9.0 Women's Roles.** The intersection of gender and culture is considered, with emphasis on women's issues. We explore the role of women in Canada and elsewhere, assessing how nation and culture shape gender discourses, and we examine aboriginal issues at home and abroad. (This course is affiliated with McLaughlin College.)

**AS/SOSC 1200 9.0 Canadian Problems.** The conceptual framework that has been developed out of this experience is used to examine a number of contemporary problems, selected each year on the basis of their topicality and relevance to a comprehensive understanding of current Canadian public policy. (This course is affiliated with McLaughlin College.)

*Degree credit exclusion: AS/SOSC 1200 6.0.*

**AS/SOSC 1210 9.0 Human Rights and Canadian Minorities.** This interdisciplinary course examines Canadian attitudes, institutional practices and government policies affecting opportunities for full participation in Canadian society for various Canadian minorities, ethnic and religious groups, homosexuals, women, the aged, disabled and poor. Strategies for change are critically analyzed. (This course is affiliated with Founders College.)

*Degree credit exclusion: AS/SOSC 1210 6.0.*

**AS/SOSC 1350 9.0 Women and the Law.** This course explores the role of gender within the context of the legal system. Current issues that highlight the relationship between gender and law are examined by analyzing both legislation and case law. Topics include: divorce, rape and equal pay. (This course is affiliated with McLaughlin College.)

*Degree credit exclusion: AS/SOSC 1350 6.0.*

**AS/SOSC 1430 9.0 Introduction to Development Studies.** This course introduces students to the field of development studies, which has emerged as a result of efforts to bring about "development" in Third World countries. It uses a critical and historical approach drawing on concrete case studies, to examine the assumptions, practices and consequences of development. (This course is affiliated with Founders College.)

*Degree credit exclusion: AS/SOSC 1439 9.0.*

**AS/SOSC 1440 9.0 Introduction to Cross-Cultural Studies: the Family, Production and Social Groups.** The course introduces basic issues in social science. We examine various methods and approaches designed to help understand, analyze and predict human behaviour. In particular we will focus on families and work in a variety of different cultures. (This course is affiliated with Founders College.)

*Degree credit exclusions: AS/SOSC 1000 6.0, AS/SOSC 1000 9.0 Section B.*

**AS/SOSC 1510 9.0 The Future of Work.** This course studies the emerging patterns of work in Canadian society. It provides a comprehensive understanding of the post-war work world, the causes of its breakdown, changing values and identities, and competing scenarios for work, leisure and unemployment. (This course is affiliated with Calumet College.)

**AS/SOSC 1520 9.0 Markets and Democracy: The Development of Industrial Society.** The development of industrial capitalism has entailed profound changes in ways of living. The course considers the spread of the market economy, the industrialization of production and the associated transformation of social and political institutions and ideas. (This course is affiliated with McLaughlin College.)

*Degree credit exclusions: AS/SOSC 1520 6.0, AS/SOSC 2510 6.0.*

**AS/SOSC 1535 9.0 Societies and Economic Systems.** This course examines the 20th century's two dominant economic systems: Western capitalism and Eastern European socialism. It provides a comprehensive understanding of the theory and practice of both systems and discusses movement between them. (This course is affiliated with McLaughlin College.)

**AS/SOSC 1731 9.0 CyberCities: The Community and Communication in Changing Urban Areas.** Technology's impact on cities is examined, with emphasis on institutions and landscapes. Changes of metropolitan form, issues of community formation, and emerging



patterns of work, leisure and urban life are explored in the context of shifting modes of electronic communication. (This course is affiliated with Calumet College.)

*Note: available only on the Internet.*

**AS/SOSC 1740 9.0 Development of Urban Economies: Comparing Canada and the Third World.** This course compares urban economic development in Canada and the Third World in terms of industrialization, urbanization and economic dependency. Themes are: colonial cities and industrial dependence; the multinational corporation, technological dependence and urban employment; urban problems and alternative solutions. (This course is affiliated with Calumet College.)

*Degree credit exclusion: AS/SOSC 1740 6.0.*

**AS/SOSC 1910 9.0 Education and Social Change.** This course examines the development of educational systems against the background of a changing social structure. The question of "education for what" is stressed in understanding historical and contemporary school systems. The course emphasizes the Canadian educational experience. (This course is affiliated with Vanier College.)

*Degree credit exclusions: AS/SOSC 1910 6.0, AS/SOSC 1919 9.0.*

**AS/SOSC 1960 9.0 Introduction to Modern Social and Political Thought.** This course provides a broad introduction to the interdisciplinary study of modern social and political thought. Through critical reading and analysis of primary texts, students become familiar with the rise of the liberal tradition, focusing on critiques, defenses and developments of its conceptions of the modern world. (This course is affiliated with Stong College.)

*Degree credit exclusion: AS/SOSC 1990B 6.0.*

**AS/SOSC 1990 3.0/1990 6.0 Special Topics in Social Science.** Each year, depending on the availability of faculty, full and half courses are offered, with both lectures and tutorial sections, which deal with interdisciplinary topics of a unique character. Consult the supplementary calendars available in the division office for full descriptions.

## II. Upper-Level Courses

Courses at the 2000 level include courses of interest to students majoring in other departments, but are frequently designed to introduce students to the Interdisciplinary programs (African Studies, Canadian Studies, Communication Studies, East Asian Studies, Health and Society, Labour Studies, Latin

American and Caribbean Studies, Law and Society, Religious Studies, Science and Society, Social and Political Thought, Urban Studies and Women's Studies) offered through the Division of Social Science.

Courses at the 3000 level are designed to give students an opportunity for advanced interdisciplinary work in the social sciences. They are either oriented towards theoretical and philosophical problems in the social sciences, or

towards specific areas of interdisciplinary research.

Courses at the 4000 level are advanced seminars designed to provide students in the Honours Double Major Interdisciplinary BA programs with an opportunity to integrate their studies.

Upper-level courses in the division are open to all students, whether they are or are not registered in an interdisciplinary program offered by the division. Those restricted to students registered in an Honours Double Major Interdisciplinary BA program are few in number and are almost wholly the 4000-level seminars. For the sake of convenient reference, upper-level courses are grouped below under the following themes, which are not exclusive; a number of courses are cross-listed and many could fall under a variety of headings. Courses at the upper level are also designed as a component of the General Education requirement.

### Multidisciplinary Program Related:

**Business and Society:** AS/SOSC 2340 9.0, AS/SOSC 4040 6.0

**Information Technology:** AS/HUMA 2920 9.0 or AS/SOSC 2080 9.0

### Interdisciplinary Program Related:

*Note: For purposes of meeting program requirements, all Foundations courses will count as six credits towards the major.*

**African Studies:** AS/SOSC 2480 9.0, 4480 6.0

**Canadian Studies:** AS/SOSC 2200 9.0, 4200 6.0

**Communication Studies:** AS/SOSC 2310 9.0

**East Asian Studies:** one from the following AS/HIST 2710 6.0, HUMA 1400 9.0 or CH 2700 6.0

**Health and Society:** AS/SOSC 2110 6.0, 4140 6.0

**Labour Studies:** AS/SOSC 2210 9.0, 4210 6.0

**Latin American and Caribbean Studies:** AS/SOSC 2460 6.0, 4450 6.0

**Law and Society:** AS/SOSC 2350 6.0, 4350 6.0

**Religious Studies:** AS/SOSC 2600 9.0

**Science and Society:** one from Humanities AS/HUMA 1910 9.0 or AS/HUMA 2915 9.0; AS/SOSC 2040 9.0, AS/SOSC 4225 6.0

**Social and Political Thought:** AS/SOSC 2550 6.0, AS/SOSC 2570 9.0

**Urban Studies:** AS/SOSC 2710 9.0, 3700 6.0, 4700 6.0 or 4710 6.0

**Women's Studies:** AS/SOSC 2180 9.0

**Special Topics:** AS/SOSC 2990 3.0/2990 6.0, 3990 3.0/3990 6.0, 4090 3.0/4090 6.0, 4990 3.0/4990 6.0. During spring registration details of upper-level courses are available from the division office (S741 Ross). At that time, a listing of new courses under the Special Topics rubric may also be available.

**AS/SOSC 2040 9.0 Nature and Human Nature.** An enquiry into the biological dimensions of human culture with emphasis on findings of evolutionary theory, zoology and primate studies in order to understand the

evolutionary determinants of "primitive" and "modern" societies. (This course is affiliated with Bethune College.)

*Degree credit exclusion: AS/SOSC 1040 6.0.*

**AS/SOSC 2080 9.0 Information and Technology.** This course provides students with critical stances with which to view our society's preoccupation with "information" and "technology". We explore how computers can manage information and how this impacts on issues of ethics, control, privacy, censorship and copyright.

*Degree credit exclusions: AS/SOSC 1080 6.0, AS/SOSC 1080 9.0, AS/SOSC 1089 6.0, AS/SOSC 1089 9.0, AS/SOSC 2089 9.0.*

**AS/SOSC 2100 6.0 Social Relations: Ideas and Action.** Groups and individuals act on the basis of certain sets of ideas or "ideologies" — convictions as to what is "real" or "good" or "true." This course provides a frame-of-reference for understanding these ideologies as they apply to the interpretation of the self, society and the natural world.

**AS/SOSC 2110 6.0 A Critical Study of Health and Society.** This course examines various perspectives towards health, the social construction of illness and the relationship between disease and social structures. It explores the linkages between the development of the health care system and professions and the medical-industrial complex.

*Degree credit exclusions: AS/SOSC 2110 6.0, AS/SOSC 2110 9.0.*

*Note: This course is required of students in the Health and Society program, but also is open to others.*

**AS/SOSC 2112 6.0 The Political Economy of Health: International Comparative Perspectives.** This course analyses (from a comparative political economy perspective) the main determinants of health in developed nations. It considers social, economic and environmental factors, differing health policies-strategies, comparative health systems, the medical-industrial complex and health care organizations.

**AS/SOSC 2150 9.0 Families in Crisis: Issues of Health Environments and Poverty.** This course examines the crisis of the contemporary family. We use the family therapy literature to examine the crisis within the family system; and we also use the critical perspectives of Marxism, psychoanalysis and feminism to understand the position of the family in the surrounding social world. (This course is affiliated with McLaughlin College.)

*Degree credit exclusions: AS/SOSC 2150 6.0, AS/SOCI 3660 6.0, AS/SOSC 3150 6.0.*

**AS/SOSC 2180 9.0 On Woman.** An introduction to Women's Studies, this course explores the situation of women in various social and cultural contexts. Using the tools and methodologies of the Humanities and the

Social Sciences, it approaches the subject in multi- and inter-disciplinary ways. (This course is affiliated with Founders College.)

*Degree credit exclusions:* AS/SOSC 2180 6.0, AS/HUMA 2930 6.0, AS/AK/GL/WMST 2500 6.0.

*Cross-listed to:* AS/HUMA 2930 9.0, AS/AK/GL/WMST 2510 9.0.

*Note:* This course is required of students in the Women's Studies program, but also is open to others.

**AS/SOSC 2200 9.0 Sovereignty and Democracy: Canada in the New Global Economy.** An introduction to the program in Canadian Studies. A critical assessment of the body of knowledge on Canada as it has developed in selected disciplines. Works of various scholars are examined to illustrate approaches used. (This course is affiliated with McLaughlin College.)

*Degree credit exclusion:* AS/HUMA 2200 6.0.

*Note:* This course is required of students in the Canadian Studies program, but also is open to others.

**AS/SOSC 2210 9.0 Labour Relations in Canada: An Introduction.** An introduction to the relations between labour and management in Canada, especially the changing nature of the workplace, the evolution of the Canadian labour movement, the role of the Canadian state, the operation of collective bargaining structures and a wide range of contemporary issues in labour relations.

*Degree credit exclusion:* AS/SOSC 2210 6.0.

*Note:* This course is required of students in the Labour Studies program and students in the Business and Society Labour Studies stream, but is also open to others.

**AS/SOSC 2310 9.0 Introduction to Communications.** This course examines the relationships among the structure of information, the media and technology that convey it, its perception and interpretation by individuals, groups and organizations, and the social, economic and political processes that affect information production and dissemination. (This course is affiliated with Calumet College.)

*Degree credit exclusion:* AS/SOSC 2310 6.0.

*Note:* This course is required of students registered in the Communication Studies program, but also is open to others.

**AS/SOSC 2311 6.0 Communication in Everyday Life.** This course examines the processes of interpersonal communication to provide insight into how we create and communicate meaning for each other at all levels of social communication. We analyze everyday communication using a variety of models from the Social Sciences.

*Degree credit exclusion:* AS/SOSC 1990J 6.0.

**AS/SOSC 2312 6.0 Popular Culture in Canada.** This course explores the question of the existence of a distinct Canadian identity and national culture. Through the examination

of communication systems in Canada, their histories, ownership and control, the course attempts to determine if a Canadian 'popular' culture has any specificity or meaning.

*Prerequisite:* none.

*Degree credit exclusion:* AS/SOSC 2990R 6.0 (Fall/Winter 1998-1999 through Fall/Winter 2000-2001).

**AS/SOSC 2330 9.0 The Economics of Law Policy and Organization.** This course considers Economics as a form of moral argument. This course considers how economists evaluate existing government policies in a broad variety of areas, including housing policies and rent control, environmental protection and gender equity in the workplace. (This course is affiliated with Calumet College.)

*Degree credit exclusions:* AS/SOSC 3530 6.0, AS/POLS 3310 6.0.

**AS/SOSC 2340 9.0 Foundations of Business and Society.** An introduction to Business and Society studies, emphasizing the interaction of economic and social development globally and in the Canadian context and introducing the perspectives of Economics, Mathematics and Statistics, Political Science, Psychology, Labour Studies and Sociology.

*Note:* This course is required of students registered in the Business and Society program, but also is open to others.

**AS/SOSC 2350 6.0 Law and Society.** This course examines the interrelationship between law and the social sciences with emphasis on types of legal thought, the function of law in society, legal systems and a variety of specific issues involving Canadian society and law, such as the legal profession, the criminal process, civil and political rights and family law.

*Note:* This course is required of students registered in the Law and Society program, but also is open to others.

**AS/SOSC 2410 9.0 Developing Countries: Diversities and Contradictions.** The course examines the societies of Asia, Africa and Latin America with emphasis on the human dimension of modernizing processes, neo-imperialism, political stability and instability, economic development and lack of development and the solutions adopted in specific countries. (This course is affiliated with Stong College.)

*Degree credit exclusion:* AS/SOSC 1410 6.0.

**AS/SOSC 2430 6.0 Peoples and Cultures of Southeast Asia.** This course examines Southeast Asia in historical, ideological, cultural and ecological contexts. Thematic oppositions, including those between hills and plains, tribes and states, Chinese and Indian civilizations introduce current issues on development, revolution and migration in Southeast Asia.

*Degree credit exclusion:* AS/SOSC 1460 6.0.

**AS/SOSC 2435 6.0 Introduction to South Asian Studies.** This course introduces students to contemporary South Asia by exploring the following themes: history and political economy; institutions and governments; social movements; the environment; and culture and identity (including issues relating to the South Asian diaspora).

**AS/SOSC 2460 6.0 Contemporary Latin America.** This course offers an interdisciplinary examination of the basic features of contemporary Latin America. It provides a historical overview of Latin America and an understanding of the commonalities and diversities in the region.

**AS/SOSC 2470 6.0 Caribbean Society in Transition: Emancipation to Independence.** The course explores the sociocultural matrix of Commonwealth Caribbean society and examines the quest for identity, personal and national, and the pattern of institutional development in promoting or frustrating that quest, including insularity and regionalism; race, colour and class; political leadership.

**AS/SOSC 2480 9.0 Introduction to African Studies.** The course explores common themes in the social organization, history and cultural heritage of Africa's diverse peoples. It then moves to examine the impact of colonialism and the struggle to develop politically and economically viable nation-states in the post-colonial era. The work of African writers, artists and statesmen furnishes an important contribution to the course's understanding of Africa, past and present. (This course is affiliated with Founders College.)

*Degree credit exclusion:* AS/SOSC 2480 6.0.

*Note:* This course is required of students registered in the African Studies program, but also is open to others.

**AS/SOSC 2550 6.0 Contemporary Theories in Social and Political Thought.** This is the introductory core course in the program in Social and Political Thought and is required of all students in their first year of enrolment in the program. The course is also open, however, to other interested students. The course aims at an explication of the main historical, philosophic and social scientific themes relevant to an understanding of the nature of "society," especially modern and contemporary Western society.

**AS/SOSC 2560 6.0 Ideology and Everyday Life.** This course explores the crucial role that ideology plays in patterning and giving purpose to an individual's everyday life experiences. There are two case studies: one focuses on North America, the other examines Weimer Germany and the rise of Nazism.

**AS/SOSC 2570 9.0 Human Nature in Political and Social Thought.** The course deals with concepts of human nature developed by important theorists over the ages. Particular emphasis is placed on the uses of the psychodynamic conception of personality for political and social thought.

*Degree credit exclusion:* AS/SOSC 2570 6.0.

**AS/SOSC 2600 9.0 Introduction to the Study of Religion.** A comparative examination of the history, literature, practices and social aspects of the religious traditions of South Asia (Buddhism, Hinduism), East Asia (China, Korea, Japan), Europe and West Asia (Judaism, Christianity and Islam), Africa and the Native America. (This course is affiliated with Vanier College.)

*Cross-listed to: AS/HUMA 2800 9.0.*

*Degree credit exclusions: AS/HUMA 2800 6.0, AS/SOSC 2600 6.0.*

*Note: not all traditions will be offered in any given year.*

**AS/SOSC 2710 9.0 City Lives and City Forms: An Introduction to Urban Studies.** This course introduces students to the tradition and practice of urban studies through an exploration of the social fabrics of cities as historical products that both reflect and influence economic, political and cultural realities in contemporary societies.

*Degree credit exclusion: AS/SOSC 2710 6.0.*

*Note: This course is required of students registered in the Urban Studies program, but also is open to others.*

**AS/SOSC 2730 6.0 The Culture of Cities: Visual Journey Through Space and Time.** From the gods of Ur to the colonnades of the Greek agora, from Roman baths to the baroque torture chambers, from the squalid industrial cities to the Disneyland cities, this course is an intellectual and visual journey into the culture of cities.

*Degree credit exclusions: AS/SOSC 2730 6.0, AS/SOSC 2990B 6.0, AS/SOSC 2730 9.0.*

**AS/SOSC 2800 6.0 Development in Comparative and Historical Perspective.** An exploration of the various aspects that have characterized the experience of development over the last half-century. We focus on the concepts, theories and strategies of development that have formed the core of the debate within the field of development studies.

**AS/SOSC 2810 6.0 Special Topics in Literature, Art and Society.** An examination of selected works and their relationship to the social, economic and political conditions within which they were produced.

**AS/SOSC 2830 9.0 Music and Society.** This course explores the relationship between the production and performance of music and its economic, social and political milieux. The first part of the course centres on the special theoretical perspective of the social sciences and the understanding it gives of the structure and content of music. The second part focuses on music in the modern world. (This course is affiliated with Vanier College.)

*Degree credit exclusion: AS/SOSC 2830 6.0.*

**AS/SOSC 2840 6.0 Film and Society.** Economic and sociological analysis of the cinema in modern Western society, with comparative material from other media and other societies; mass society; communications; studies of the

industry, the audience, the content of the experience, and art and values; the medium as the message.

**AS/SOSC 2850 6.0 Theatre and Society.** This course provides an historical and analytical examination of theatrical plays in terms of their representation of social values and the relationship between the individual and social life. This focus on the theatre as a cultural institution leads to discussions of gender, race, the family and morality.

**AS/SOSC 2860 6.0 Interactive Multimedia.** This course examines the social impacts of interactive multimedia and has an integral "hands-on" component that gives students the opportunity to express their ideas through the use of tools that includes text, graphics, sound and animation.

**AS/SOSC 2950 3.0 Comparative Education I: Theory and Practice.** The theoretical relationships between the education system and society is examined on a comparative basis. The course studies the organization, administration, control and general functioning of education within different economic, social and political systems.

*Degree credit exclusions: AS/SOSC 1950 6.0, AS/SOSC 2950 6.0.*

**AS/SOSC 2951 3.0 Comparative Education II: Politics and Education.** Education and politics are said to live in a symbiotic relationship with each influencing the fate of each other in all societies developed and underdeveloped. This course studies that essential connection by examining a number of case-studies on a world-wide basis.

*Prerequisite: AS/SOSC 2950 3.0.*

*Degree credit exclusions: AS/SOSC 1950 6.0, AS/SOSC 2950 6.0.*

**AS/SOSC 2960 9.0 Italian: A Minority Culture and Language in North American Society.** This course investigates the effects North American culture and language have on the lives of Italian immigrants and their descendants. (This course is affiliated with Stong College.)

*Cross-listed to: AS/IT 2971 9.0.*

*Degree credit exclusions: AS/SOSC 2990C 6.0, AS/IT 2791 6.0, AS/IT 2790 6.0.*

**AS/SOSC 2990 3.0/2990 6.0 Special Topics.** Each year, depending on the availability of faculty, full and half courses are offered, with both lectures and tutorial sections, which deal with interdisciplinary topics of a unique character. Consult supplementary calendars available in the division office for full descriptions.

**AS/SOSC 3030 6.0 Crime and Punishment in Western Societies.** This course focuses on the way different societies over time have endeavoured to deal with perceived criminality. It encompasses a wide range of criminal justice issues, including definitions of crime, criminological theory, the role of the courts, legal codes and policing.

**AS/SOSC 3050 6.0 Controversial Research in the Social Sciences: Methodological and Ethical Issues.** This course explores in great detail the methodological and ethical controversies which certain kinds of research in the social sciences have provoked.

**AS/SOSC 3090 6.0 Medicine and North American Society in Historical Perspective.** This course explores North American social and cultural responses to disease. It offers a critical, historical evaluation of the ways in which science accorded medicine a new intellectual and institutional status that transformed explanations for disease and patterns of healing/caregiving.

*Cross-listed to: AS/HIST 3880 6.0.*

**AS/SOSC 3111 3.0/3111 6.0 Special Topics in Health and Society.** From time to time, depending on the availability of faculty, full and half courses are offered dealing with current topics of special interest to students in Health and Society and related fields. Please consult the Health and Society coordinator or the Social Science division's supplemental calendar for descriptions of current offerings.

**AS/SOSC 3112 6.0 Health and Society in the Third World.** This course analyses the morbidity-mortality patterns in the developing countries. It compares the different health care system, discusses the Health-Illness process and policies in the Third World and examines the international cooperation strategies in the health field.

*Degree credit exclusion: AS/SOSC3990J 6.0.*

**AS/SOSC 3113 6.0 Health Care Professions: Theories and Issues.** The concept of "profession" in health care is explored through an examination of the development of the hierarchical division of labour and the struggles for autonomy by health occupations. The impact of restructuring on professional boundaries and autonomy is examined.

*Degree credit exclusion: AS/SOSC 2113 6.0.*

**AS/SOSC 3120 6.0 To Be or Not to Be – Suicide and Culture in Comparative Perspective.** The course is designed to introduce students to comparative suicidology — an interdisciplinary, transcultural study of suicide behaviour.

**AS/SOSC 3125 6.0 Women Organizing.** Women have a long tradition of organizing to expand their rights, resist oppression, challenge and defend traditional values, and to change their societies. This course documents and analyses the patterns of women's activism using historical, cross-cultural and contemporary sources.

*Cross-listed to: AS/AK/GL/WMST 3509 6.0.*

*Degree credit exclusion: AS/SOSC 3990B 3.0.*

**AS/SOSC 3130 6.0 Women and Work: Production and Reproduction.** This course explores the conditions of women's work, paid and unpaid. The historical development of a sexual division of labour and the roles played

by the family, employers, trade unions and government policy in the gendering of jobs is examined.

*Cross-listed to: AS/AK/GL/WMST 3510 6.0, AK/SOSC 3380 6.0, GL/WKST 3610 6.0.*

**AS/SOSC 3140 3.0 Psychotherapy and the Arts.** This course introduces the role of imagination and the arts in different psychotherapeutic frameworks, paying special attention to psychoanalysis, Jungian and Gestalt. It also focuses on contemporary work in art therapies themselves, concentrating on visual art therapy.

*Degree credit exclusion: AS/SOSC 3140 6.0 (Fall/Winter 1989-1990 through Fall/Winter 2000-2001).*

**AS/SOSC 3141 3.0 Introduction to Expressive Arts Therapy.** The arts therapies as separate disciplines (music therapy, dance therapy, art therapy, drama therapy, poetry therapy) have existed for some time. Expressive arts therapy is a more recent development. This course presents the basic theoretical concepts in the current state of the field.

*Degree credit exclusion: AS/SOSC 3140 6.0 (Fall/Winter 1989-1990 through Fall/Winter 2000-2001).*

**AS/SOSC 3160 6.0 Understanding Psychotherapy.** This course provides an introduction to the theory and practice of intensive psychotherapy. An overall balance is sought between the classical approach of Freud and his followers, post-Freudian developments in psychoanalytic technique and the more recent perspective of self psychology.

**AS/SOSC 3162 3.0 Drama, Ritual and Healing.** This course examines the connections between ritual, theatrical performance and the therapeutic use of theatre. The traditional use of ritual in healing ceremonies are compared to contemporary dramatic and therapeutic practices which seek to revive the ritual dimension.

*Degree credit exclusions: AS/SOSC 3162 6.0, AS/SOSC 3990P 6.0.*

**AS/SOSC 3163 3.0 Drama and Therapy.** This course studies the contemporary use of theatre in psychotherapy. It focuses on psychodrama, drama therapy and the Boal method of theatre and therapy. The course combines practical training with theoretical understanding.

*Degree credit exclusions: AS/SOSC 3162 6.0, AS/SOSC 3990P 6.0.*

**AS/SOSC 3164 6.0 Occupational and Environmental Health.** Environmental and occupational health problems are examined from a political economy perspective. Using case studies, issues relating to law, media, rights and science are discussed. The role of experts, victims and social movements in affecting change are explored.

*Degree credit exclusion: AS/SOSC 3111A 6.0.*

**AS/SOSC 3165 6.0 Problems in Canadian Business Law.** This course describes the legal rules that govern the conduct of business in Canada and samples the extensive normative commentary on these issues. Students also develop their capacity to present written arguments reflecting their own views on the law.

*Cross-listed to: AS/POLS 3165 6.0.*

*Degree credit exclusions: AS/ECON 4500 3.0, AS/ECON 4510 3.0.*

**AS/SOSC 3170 3.0 Women and Politics.** This course examines women's political position in advanced capitalist countries. The focus is historical, theoretical and issue-oriented. Issues examined include the politics of racism, sexuality, reproduction, pornography within formal political structures and community organizing.

*Cross-listed Courses: AS/AK/GL/WMST 3516 3.0, AS/POLS 3450 3.0.*

*Degree credit exclusions: GL/POLS 4960E 6.0, GL/WMST 4960E 6.0.*

**AS/SOSC 3175 3.0 Topics in Women and Politics.** This course explores in greater depth one of two of the issues examined in AS/SOSC 3170 3.0. Possible issues include women and employment, politics of reproduction, politics of racism, gender and international relations, feminist theory etc.

*Cross-listed to: AS/POLS 3455 3.0 and AS/AK/GL/WMST 3517 3.0.*

*Prerequisite: AS/POLS 3450 3.0 OR AS/SOSC 3170 3.0 or AS/AK/GL/WMST 3516 3.0 or permission of the instructor.*

*Degree credit exclusions: AS/POLS 3450 6.0, AS/SOSC 3170 6.0.*

**AS/SOSC 3190 6.0 Gender, Race and Class in Canada.** This course is designed to explore, through a critical analysis of the relevant literature, both theoretical and empirical, the current status of women in society. Material is derived from the disciplines of anthropology, history, political science, psychology and sociology.

**AS/SOSC 3210 6.0 The Working Class in Canadian Society.** An exploration of the changing nature of paid and unpaid work in Canada in the 19th and 20th centuries, including discussion of work processes and technology in home and industry, changes in the labour force, evolution of unions and management, the role of the state, ideologies of work and the impact of changes in the world of work on the larger society. The focus is primarily on Canada, with some international comparisons and consideration of more important theoretical issues.

*Cross-listed to: AS/HIST 3531 6.0.*

**AS/SOSC 3220 6.0 Youth and Society.**

This course explores the impact of social, economic, political and cultural conditions on the experience of youth. It examines youth in the family, in school, at work and in politics through the 19th century to the present.

**AS/SOSC 3240 3.0 Labour and Globalization I: North American Perspectives.** This course looks at the post-war assumptions governing the limits and possibilities of trade union action in mature welfare states. It moves to looking at labour in English Canada and Quebec, the US and Mexico, pre- and during NAFTA.

*Degree credit exclusion: AS/SOSC 3240 6.0.*

**AS/SOSC 3241 3.0 Labour and Globalization II: Comparative Perspectives.** This course focuses on the changed environment for labour action and the search for new sources of trade union authority and power in the European Community, Russia, Australasia, Latin America and Africa.

*Degree credit exclusion: AS/SOSC 3240 6.0.*

**AS/SOSC 3250 6.0 Canadian Social History.** This course is designed to give students an introduction to the major themes of Canadian social development. Demography, geography, economy, social structure and institutional development are among the major aspects to be examined. The second term is devoted to a study of the industrial society which established its hegemony before 1930. Lectures and readings explore such issues as the changing structure of the labour force; poverty, women, immigration, ethnicity, social change and reform ideologies. Term mini-research projects involve learning to use genealogical and local history sources.

*Cross-listed to: AS/HIST 3530 6.0.*

**AS/SOSC 3270 6.0 The Caribbean Experience in Multicultural Canada.** This course explores the underlying assumptions and issues associated with Canadian multiculturalism using the Caribbean as an ethno-cultural reference group. It examines the historical and socio-cultural factors which affect the development of multiculturalism as an ideology of Canada.

**AS/SOSC 3280 3.0 The Political Economy of Labour in Canada.** An analysis of the role organized labour has played in the political economy of Canada. The course traces the interaction of labour, business and government and focuses on the contemporary struggle of labour as it confronts the corporate state.

*Cross-listed to: AS/POLS 3140 3.0.*

*Prerequisite: Any second-year Political Science course or permission of the instructor.*

*Degree credit exclusion: AS/POLS 3140 6.0.*

**AS/SOSC 3290 6.0 The Regulatory Process in Canada.** Drawing on literature from economics, political science, sociology and administrative law this course looks at when and why governments employ social or traditional regulation. When and why is deregulation advocated? Who benefits? Who loses? What controversies surround the design of regulation?

**AS/SOSC 3300 6.0 The Mass Media, Culture and Society: The Canadian Case.** An examination of the flow of ideas and messages through the Canadian mass media communication system. The social and political functions of the media are explored as well as the economic, social and political environment in which they operate.

**AS/SOSC 3310 6.0 Communications for Tomorrow.** This course explores the future direction of communications in Canadian society. The technological advances in telecommunications and other information delivery systems (e.g. electronic mail, electronic fund transfer, two-way cable TV, communications satellites) present complex social issues that Canadian communications policy makers must deal with.

**AS/SOSC 3311 6.0 Communication in Organizations.** This course examines the nature and variety of human organizations and the processes of human communication that create, sustain and change them. Problems in communication in large organizations are studied with a view to understanding the basis for effective communication and approaches to improving organizational functioning.

**AS/SOSC 3312 6.0 Mass Media Systems Compared: North America and the Russian Federation.** This course provides a comparative analysis of the structure and content of the press, radio and television in North America and the USSR. Special attention is given to the question of freedom and responsibility in the treatment of information in the role and functions of the mass media.

**AS/SOSC 3313 6.0 Issues in Mass Media, Education and Change.** This course examines the impact of mass communication on socialization, learning and change. Canadian and cross-cultural aspects of mass media and education systems are highlighted.

**AS/SOSC 3314 6.0 Economic Structure of Mass Communications.** An examination of the structure, conduct and performance of communication industries, including traditional mass media industries and the emerging transnational information industry. The course examines these industries in terms of micro-economic theory and the political economy of communications.

**AS/SOSC 3315 6.0 Advertising and Society.** This course reviews the historical development of advertising. Careful attention is paid to the economic shift from production to consumption; the culture of consumption; the cultural triumph of the image; the democratization of luxury; and the aesthetics of mass culture.

**AS/SOSC 3316 6.0 Television as Culture and Communication.** This course examines the interaction between television and culture by exploring the local and global impact of television, its narrative structures, the medium and its effects. The ideological role of television in representing and constructing shared beliefs and audience response.

*Degree credit exclusion: AS/SOSC 3990H 6.0.*

**AS/SOSC 3320 6.0 Communication Theory.** This course examines the numerous theories and theoretical approaches being used to study mass communication. Communication theory is studied in the wider context of the social sciences and in light of differences between North American and European perspectives.

**AS/SOSC 3350 3.0 Broadcasting Policy: A Comparative Introduction.** This course introduces students to the politics of broadcast regulation with an emphasis on the Anglo-American democracies. It pays particular attention to the role of regulatory agencies and the struggles that have emerged between the major stakeholders in broadcast regulation.

*Degree credit exclusion: AS/SOSC 3350 6.0.*

**AS/SOSC 3351 3.0 Broadcasting Policy: Current Issues and Case Studies.** This course examines current issues in broadcast regulation through the use of case studies. It examines such issues as: broadcasting and national identity; the regulation of advertising and content; the convergence of broadcasting and telecommunications.

*Prerequisite: AS/SOSC 3350 3.0.*

*Degree credit exclusion: AS/SOSC 3350 6.0.*

**AS/SOSC 3360 6.0 Canadian Charter of Rights and Freedoms.** This research seminar uses historical and contemporary materials to examine the uses and role of law and legal institutions in the production and reproduction of social order. The focus throughout is on the Canadian experience. Various analytic and methodological approaches are discussed and students are encouraged to pursue original research in relevant substantive areas of their choice.

**AS/SOSC 3370 6.0 Social Justice and Law.** This course introduces students to different contemporary theories of social justice. The general objective is to bridge the gap between the philosophical literature on social justice and the legal and social science literature on questions of social policy.

**AS/SOSC 3380 6.0 Law, Labour and the State.** This course examines state regulation of relations between employers and workers by courts, legislatures and administrative and quasi-judicial tribunals. It compares modern Canada's compulsory collective bargaining regime with the traditional legal view of "master and servant."

**AS/SOSC 3381 6.0 Criminal Justice System.** This course examines the criminal justice system, exploring issues from a historical, sociological and legal perspective. Various theoretical explanations for discrepancies between legal ideals and social practices are examined. Patterns of decision-making are linked to contemporary political debates concerning legal equality in Canada.

*Degree credit exclusion: AS/SOSC 3990S 6.0.*

**AS/SOSC 3390 6.0 Special Topics in Law and Society.** From time to time, depending on the availability of faculty, six and three credit courses are offered dealing with topics of special interest to students in Law and Society. Please consult the Social Science division's calendar for descriptions of course offerings.

**AS/SOSC 3410 6.0 The Political Economy of Latin America and the Caribbean.** The course critically examines the classical writings on imperialism, underdevelopment

and dependency, as well as new theoretical attempts to conceptualize the problems of poverty, environmental degradation, unequal exchange and the new international division of labour. Case studies of Jamaica, Mexico, Cuba and other countries serve to highlight these issues.

*Cross-listed to: AS/POLS 3290 6.0.*

**AS/SOSC 3480 6.0 Culture, Democracy and Development in Africa.** This course explores the complex interplay of political, social and cultural forces at work in Africa's communities, nations and regions. Of particular interest is the often ignored capacity of African culture to generate change and solve the problems of development.

**AS/SOSC 3501 6.0 Feminist Research Methods.** This course examines methodological and qualitative issues related to doing feminist research in the Social Science disciplines, including: objectivity, standpoint theory, interdisciplinarity, feminist challenges to specific disciplines, inclusivity, methodological tools and postmodernism. We also explore appropriate research.

*Cross-listed courses: AS/AK/GL/WMST 3501 6.0, GL/SOSC 3604 6.0.*

*Degree credit exclusions: AS/SOSC 3990U 6.0, AS/SOCI 4600 6.0, GL/WMST 3900E 6.0, AK/WMST 4300 6.0.*

**AS/SOSC 3510 6.0 Social Evolution: Problems and Prospects.** This course considers an organicist approach to the problems and opportunities created by social, scientific and technological development. Pollution, the arms race, unemployment and the quality of working life are among the contemporary problems considered.

**AS/SOSC 3540 6.0 The Political Economy of Food.** This course examines the production, consumption and social meaning of food, from historical and contemporary perspectives. The controversies surrounding both the definition of contemporary problems relating to food and the solutions proposed for them are addressed.

*Degree credit exclusion: AS/SOSC 3540 6.0.*

**AS/SOSC 3542 6.0 Comparative Economic Systems.** This course explains how different social systems organize their economic institutions and mechanisms to solve the basic economic tasks of society. It considers economic and social consequences of the market and central planning systems, comparing their shortcomings and strengths, their differences and their common features.

*Degree credit exclusion: AS/SOSC 1540 6.0.*

**AS/SOSC 3550 6.0 Modernity at the Millennium: Myths of Transcendence in Modern Western Society.** This course critically examines the history of the guiding ideas with which modern western societies define their destiny at the turn of the new millennium: "science," "technology," the "market," "progress," "secularization," "development," and "history" itself.

**AS/SOSC 3580 6.0 Society and Economy in Transition: The Experience of Post-Communist Countries.** This course examines the transition of Eastern European communist societies towards new institutional structures encompassing democratic principles and free market operations. Cataclysmic events of the late 80's are placed in historical context in order to determine the prospect and viability of this transition.

**AS/SOSC 3590 6.0 Foundations of Political Economy.** An introduction to the concepts that have characterized the development of political economy. The course begins with the work of Adam Smith, John Stuart Mill and Marx and moves to the 20th-century concerns of Keynes and dependency theory.

*Degree credit exclusion: AS/SOSC 2520 6.0.*

**AS/SOSC 3700 6.0 Urban Analysis.** This course examines the different problem solving and methodological approaches employed by economists, political scientists, historians, geographers and sociologists to investigate urban topics. Each approach is rigorously dissected to discover underlying assumptions, to articulate ideological positions, to ascertain the types of questions asked and sorts of data utilized, and to demonstrate how all of these lead to particular sets of conclusions.

**AS/SOSC 3710 6.0 Theory and Practice of Urban Planning.** This course provides a general introduction to planning theory and practice. Specific emphasis is placed on the rationale for planning, the history of planning, theoretical aspects of the planning process and pragmatic issues of planning practice.

**AS/SOSC 3720 6.0 Visual Images in Social Inquiry.** We explore social science's two distinct interests in visual materials: their use in the process of doing and reporting social fieldwork; and their status as cultural artifacts that reflect and help shape social contexts in which they are produced.

**AS/SOSC 3730 6.0 Comparative Urban Development.** Significant dimensions of urbanization and urban-rural relationships are examined comparatively across major world regions, with emphasis upon Africa, Asia and Latin America. Students may choose a regional focus for research papers, including North America. Migration patterns, socio-economic structure of cities, values and images of rural and urban life, employment and planning to meet the needs of growing cities are the principal topics covered.

**AS/SOSC 3740 3.0/3740 6.0 Special Topics in Urban Studies.** From year to year, special opportunities arise for unique offerings across disciplinary lines, depending on the availability of faculty. These are courses with both lectures and tutorial sections or seminar courses. In any given year, a full description is available before registration.

**AS/SOSC 3760 6.0 Toronto: Urban Growth and Community.** The course is a case-study in Canadian urbanization that examines Toronto's rapid growth in recent decades, forces shaping this growth and the urban community that has emerged.

**AS/SOSC 3770 3.0 Housing Policy.** The course studies Canadian housing policy using the approaches of economics, political science and public administration. The course examines models of housing markets; the effects of housing policies; the politics and process of policy formation; and procedures for policy evaluation.

*Cross-listed to: AS/GEOG 3770 3.0.*

*Prerequisites: 54 credits successfully completed including one of AS/GEOG 1410 6.0 or AK/GEOG 2500 6.0 or AS/SOSC 2710 9.0 or permission of the course instructor.*

**AS/SOSC 3780 3.0 Microcomputers in Urban Analysis.** Microcomputers in urban analysis has students establish an empirical problem, develop a data set, do preliminary graphing and perform introductory statistical analysis. Analysis is on Apple IIe and Macintosh microcomputers. The course links theory and methodology to contemporary analytic programs.

**AS/SOSC 3785 6.0 Science, Technology and Society in Chinese History.** This course examines the development of science and technology in China from the Classical period to the 20th century, in the context of the economic, social, political and intellectual history of China and Eastern Asia.

*Cross-listed to: AS/HIST 3785 6.0.*

**AS/SOSC 3790 3.0 Gender and the City.** This course examines the relationship between socially constructed gender relations and the changing nature and form of urban areas. Topics include: the separation of "male" and "female" spheres in cities and the shifting boundaries of "public" and "private" activities and spheres.

*Cross-listed to: AS/AK/GL/WMST 3505 3.0, GL/SOSC 3617 3.0.*

**AS/SOSC 3800 6.0 Development Studies Research Methods.** This course provides students with an intensive knowledge of development research and the ethical and philosophical issues related to development research. It focuses on qualitative and quantitative methods, enabling students to develop both types of skills.

**AS/SOSC 3810 6.0 Literature and Canadian Society.** An examination of selected Canadian novels and their relationship to the specific social, economic and political circumstances within which they were written.

**AS/SOSC 3820 6.0 The Social and Political Dimensions of Humour.** In this course we explore the complex phenomenon of humour from a variety of psychological, social and political perspectives. The writings of such theorists as Henri Bergson, Sigmund Freud, Erving Goffman and Gregory Bateson are

examined in detail. In addition, contemporary forms of humour are studied, with special emphasis being placed on the various types of humour to be found in the mass media.

**AS/SOSC 3920 6.0 Disability and Society: Historical, Sociocultural and Educational Issues.** This course explores the evolution of attitudes and policies towards individuals with special needs. Topics include historical and cross-cultural perceptions of exceptionality, the experience of being labelled mildly to profoundly exceptional, giftedness, the school and exceptional students, major theories.

**AS/SOSC 3930 6.0 University and Society.** This course explores interrelationships between the Canadian university and society, both historical and contemporary, focusing on the contradictions between ideals and actualities of university's mission, role and functions. Central are Canadian universities' achievements and shortfalls in serving students and society.

**AS/SOSC 3960 6.0 Interethnic Relations and the Jewish Minorities: The Study of the Sephardi, African and Asian Jewish Communities.** This course has two parts: the first part examines the sociological theories and concepts pertaining to interethnic relations. The second part analyzes interethnic relations among the minority communities of Spain, Africa and Asia.

**AS/SOSC 3970 6.0 India: Culture and Society.** The course analyzes significant political and economic developments in India in the 20th century. It is divided into three sections: (a) the nationalist movement, (b) the political economy of India's development and (c) social movements — e.g. women, anti-caste and the environmental movements.

*Degree credit exclusion: AS/SOSC 3990T 6.0.*

**AS/SOSC 3990 3.0/3990 6.0 Special Topics.** Each year, depending on the availability of faculty, full and half courses are offered, with both lectures and tutorial sections, which deal with interdisciplinary topics of a unique character. Consult supplementary calendars available in the division office for full descriptions.

**AS/SOSC 4000 6.0 Honours Thesis.** With faculty permission, students registered in Honours BA degree programs offered by the Division of Social Science may undertake a major thesis credit.

**AS/SOSC 4040 6.0 Issues in Business and Society.** An in-depth examination of issues involved in the relationship between business and society in Canada and in the global economy, including the impact of managerial and technological innovation, investment and marketing decisions, and government policy.

**AS/SOSC 4050 6.0 Animals and People.** Using psychological, social and historical approaches, we explore animal-human relationships by examining such varied forms as fairytales, works of arts, social attitudes, and economic and political institutions. We also focus on the controversial aspects of these relationships.

**AS/SOSC 4051 6.0 Education and Society in Modern China.** In 20th-century China, education reform has been an important factor in social, political and ideological upheavals. This course examines education and society in China since the 18th century; other East Asian societies may be brought in for comparison.

*Cross-listed to: AS/HIST 4050H 6.0.*

**AS/SOSC 4090 3.0/4090 6.0 Directed Reading.** This course provides supervised study equal in both requirements and credit to regular full and half courses. It is open to students in the Individualized Studies Specialized Honours BA program, but other students may also be eligible. In any given year, this course offering is conditioned by availability of faculty members. Enquiries should be directed to the Student Office of the Division of Social Science prior to registration.

*Note: Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

**AS/SOSC 4140 6.0 Health and Society Seminar.** This research seminar examines theoretical and applied problems in health and society. It introduces students to a variety of research methods and evaluative skills, which they apply in their own analysis of a particular problem. The subject of the course varies yearly.

**AS/SOSC 4150 6.0 Aging and Caregiving.** This course introduces students to the interdisciplinary field of gerontology. It deals with issues of aging and caregiving in cross-cultural, historical and contemporary Canadian perspectives.

**AS/SOSC 4160 6.0 Feminist Theories.** This course engages with theoretical debates within feminism. Sections may focus on: jurisprudence, pedagogy, postmodernism, psychoanalysis, praxis/agency, or identity and difference. The course is informed by a range of political positions and addresses the complexity of differences based on race, class, ability and sexual identity.

*Cross-listed to: AS/AK/GL/WMST 4500 6.0, GL/SOSC 4685 6.0.*

*Degree credit exclusions: AK/WMST 3030 6.0, AS/SOCI 4600 6.0.*

**AS/SOSC 4170 6.0 Gender Relations in the Third World.** The course draws from feminist theory, pre- and post-colonial political economy, and theories of discourse and ideology to explore the social relations of gender in the Third World. Africa provides the focus; other regions form the basis for comparative study. (Same as GS/SPT6750 6.0.)

**AS/SOSC 4200 6.0 Canadian Studies Seminar.** This course is required for all Canadian Studies program students in their final year. Seminar discussions and research paper topics normally focus on interdisciplinary approaches to the study of Canada.

*Cross-listed to: AS/HUMA 4200 6.0.*

**AS/SOSC 4210 6.0 Collective Bargaining Simulation.** This course provides students who have some academic or experiential background in industrial relations with the opportunity to expand their knowledge of collective bargaining by participating in a year-long simulation of contract negotiation and administration.

*Prerequisite: A university-level course in the labour relations field, or permission of the instructor.*

**AS/SOSC 4240 6.0 Labour Studies Placement.** This course places Labour Studies students in internships with unions and other work-related organizations. Students gain in-depth knowledge of one organization, learn about the nature of industrial relations employment and share their experiences with other students.

**AS/SOSC 4250 3.0/4250 6.0 Special Topics in Labour Studies.** From time to time, depending on the availability of faculty, full and half-courses are offered dealing with current topics of special interest to students in Labour Studies and related fields. Please consult the Labour Studies coordinator or the Social Science division's supplementary calendar for descriptions of current offerings.

**AS/SOSC 4300 6.0 Popular Culture: Explorations in Theory and Practice.** This course explores contemporary theories regarding the nature and role of popular culture. It stresses the debate between popular culture as a form of ideological control and popular culture as a source of social resistance and creative expression.

**AS/SOSC 4310 3.0 Issues in International Communication: Introduction.** This course examines the emergence and consequences of mediated international communication. It focuses on the social and cultural impact of global communication and the ways in which selected countries and international organizations have regulated this process.

**AS/SOSC 4311 3.0 Issues in International Communication: Current topics.** This course examines current topics in the field of international communication, with particular attention to the impact of new communication technologies and research in cross-cultural communication.

*Prerequisite: AS/SOSC 4310 3.0.*

**AS/SOSC 4312 6.0 The Politics of Canadian Broadcasting.** This course examines the political, economic and cultural considerations that affect the arrangements made by Canadian society to organize broadcasting. The focus is on current issues of public debate which are explored from a historical perspective.

**AS/SOSC 4314 6.0 Media Publics and Democracy.** The course explores the relationship between contemporary forms of mediated communication and democratic public life. It examines issues such as freedom

of expression and the regulation of communication and culture in the context of both dominant and alternative media practices.

*Prerequisites: AS/SOSC 2310 6.0 or AS/SOSC 2310 9.0.*

*Degree credit exclusion: AS/SOSC 4990D 6.0.*

**AS/SOSC 4315 6.0 Communication and the Management of Change in Organizations.** This course examines the process of managed change in human organizations and the critical role of communication in the change process. We critically analyze approaches to implementing planned change using a variety of models from the Social Sciences. This seminar is open to fourth year students who have successfully completed SOSC 3311 6.0 or those who have course director's permission.

**AS/SOSC 4318 6.0 Modes of Communication: From Orality to Literacy to the Electronic Era.** This course builds on Ong's ideas about orality, literacy and secondary orality. Looking at various "texts" (including oral, chirographic and print-based, television and hypermedia texts) throughout these overlapping periods, we examine how they can be organized and interpreted.

*Degree credit exclusion: AS/SOSC 4990B 6.0.*

**AS/SOSC 4320 6.0 Seminar on the Electronic Information Network Marketplace.** This course examines the social, economic, political and technological forces in Canada and other nations that are creating an electronic information network marketplace. The main purpose is to identify the opportunities and barriers to a new kind of information-rich civilization, to test its implications and to suggest strategies for managing it.

*Prerequisite: AS/SOSC 3310 6.0 and registration in the Communication Studies program, or permission of instructor.*

**AS/SOSC 4325 6.0 Mediations of Identity.** This course examines processes and practices at work in media representations of race, sexuality, gender, class, ethnicity and nation within Western society. Key theoretical approaches to power, knowledge, ideology, subjectivity and signification are applied to current and historical representations of social identities.

*Degree credit exclusion: AS/SOSC 3330 6.0.*

**AS/SOSC 4330 6.0 Seminar on Machine-Mediated Human Communication.** Working prototypes of "electronic" newspapers, newsstands and encyclopedias are currently emerging. The course develops student awareness and knowledge of these new media systems through reading, discussions, guest lectures and "hands-on" experience.

*Prerequisite: AS/SOSC 3310 6.0 or permission of instructor.*

**AS/SOSC 4340 6.0 Communications Field Experience.** Students earn course credit by working on a project for an organization involved in communication policy



development, information services, or administration. Details of each student's responsibilities are worked out in consultation with the supervisor, the course director and the student.

**AS/SOSC 4350 6.0 Law and Society Seminar.** This course, required of Law and Society honour students, examines theory and practice relating to the interaction of law and the social sciences depending on student and faculty interest in one or other specific topics.

*Prerequisite: This course is required of and limited to students in the Law and Society program during their final 36 credits.*

**AS/SOSC 4450 6.0 Aspects of Modern Latin American and Caribbean Studies.** This seminar is designed to integrate the program in Latin American and Caribbean Studies at the upper level.

*Cross-listed to: AS/HUMA 4300 6.0.*

**AS/SOSC 4480 6.0 African Studies Seminar.** This course presents a seminar approach to the program's main themes. Students undertake individual research papers as an integral part of their study. While the overall perspective of the African Studies program is that of social science, Faculty offerings in the field of African art, African literature (both francophone and anglophone), law, and music give the program a breadth and scope that render it truly interdisciplinary.

**AS/SOSC 4500 6.0 The Emergence of Modernity.** This course examines the emergence of modernity as a response to Enlightenment crisis. Focusing on conflicting conceptions of reason, values and emotional experience in the modern institutional context, we critically explore the modern bases of contemporary social and political life.

**AS/SOSC 4530 6.0 Marxism and Political Discourse.** An enquiry into problems generated by Marxism's formative metamorphosis from political philosophy into social theory. What place do Marxists accord to questions of power, freedom, justice, in their accounts of social formations and transformations, particularly in the "Third World"?

**AS/SOSC 4550 6.0 Problems in Social and Political Thought.** This seminar is recommended to but not required of students in the program in Social and Political Thought. It is also open, however, to interested students outside the program. The seminar deals each year with a different theme or problem and aims at its elucidation through an interdisciplinary perspective.

**AS/SOSC 4560 3.0 Regional Planning.** An examination of the "regional problem." Alternative interpretations of differential regional growth provide a basis for evaluating various regional planning policies.

*Cross-listed to: AS/GEOG 4190 3.0.*

*Prerequisite: AS/GEOG 2100 6.0 or an introductory course in Economics, or permission of the instructor.*

## AS/SOSC 4700 6.0 Urban Studies

**Seminar.** Students study in depth a selected urban topic leading to a major paper. The format is lectures and seminars for one-half of the year, handled by the faculty member; followed by student presentations of major papers.

## AS/SOSC 4710 6.0 Urban Field

**Experience.** Students earn course credit by working on a project for an outside organization involved in urban development or administration. Details of each student's responsibilities are worked out in consultations among the student, the project supervisor and the course director.

## AS/SOSC 4720 6.0 Canadian Urban Policy.

This course examines the influence of government policy on the development of cities and the characteristics of urban life. It provides a historical, institutional and theoretical framework for understanding and analyzing Canadian urban policy making and policy implementation.

*Cross-listed to: AS/POLS 4110 6.0.*

## AS/SOSC 4730 3.0 Rural Social

**Geography.** The countryside is examined as a social geographic phenomenon with emphasis upon social partitioning by class, ethnicity and territory. Analysis of social relations is related to land-uses and power, linking the countryside to advanced capitalism.

*Cross-listed to: AS/GEOG 4300 3.0.*

## AS/SOSC 4800 3.0/4800 6.0 Special Topics

**in Mass Communications.** From time to time, depending on the availability of faculty, courses are offered dealing with topics of special interest to students in the Communication Studies program. Please consult the Division of Social Science supplemental calendar for descriptions of Special Topics course offerings.

## AS/SOSC 4990 3.0/4990 6.0 Special

**Topics.** Each year, depending on the availability of faculty, full and half courses are offered, with both lectures and tutorial sections which deal with interdisciplinary topics of a unique character. Consult supplementary calendars available in the division office for full descriptions.

## Sociology – Arts

### Department Office:

2060 Vari Hall, 416-736-5015

### Chair of the Department:

N. Pupo

### Director of Undergraduate Program:

A. Turrittin

### Distinguished Research Professor:

J. O'Neill

### Professors:

P. Anisef, P. Armstrong, A. Blum,

A.G. Darroch, B.S.R. Green, C.M. Lanphier

### Professors Emeriti:

B. Blishen, J.G. Craig, F. Elkin, D. Ellis,  
C.J. Jansen, J. Lennards, T. McCormack, V.V.  
Murray, J.O'Neill, A.H. Richmond

### Associate Professors:

A.M. Ambert, K. Anderson, H. Bannerji,  
M. Beare, K. Bischooping, L. Erwin, L. Goldring,  
L. Lam, P. Landstreet, N. Mandell,  
P. McDonough, J.C. Moore, J. Newson, C.  
Nichols, M.D. Ornstein, J.G. Paasche, J. Porter,  
A. Propper, N. Pupo, A. Simmons, P. Stewart,  
A. Turrittin, P. Vandergeest, L. Weir

### Assistant Professors:

D. Brock, S. Chawla, R. Cohen, J. Gibbons, R.  
Hadj-Moussa, F. Kurasawa

As one of the liberal arts and social sciences, the discipline of sociology contributes to self-comprehension and the understanding of society by developing a body of knowledge concerning its structure, dynamics and symbolic orders. An undergraduate specialization in sociology provides a basis for graduate study and professional careers in fields such as university research and teaching in sociology, law, secondary school teaching, social research, administration and various social services. Though the members of the Department of Sociology teach a wide range of materials and perspectives on society in general and on Canadian society in particular, we take social criticism through theory development, research and teaching to be an essential element of our work.

## Courses in Sociology

For specific requirements of programs in Sociology, please consult the Faculty of Arts "Programs of Study" section. Normally, courses in Sociology meet for at least three hours a week. A more detailed description of courses and course sections is provided in the Sociology supplementary calendar, available from the Sociology Department, 2060 Vari Hall, in March.

Not all courses listed below will be offered in any one year or term. Consult the department's supplementary calendar for details of courses to be offered.

*Note: For a list of Atkinson courses which are degree credit exclusions, students should consult the degree credit exclusion/equivalent tables in the Lecture Schedule or the departmental/divisional supplemental calendars.*

### AS/SOCI 1010 6.0 Sociological Perspectives.

An introduction to basic sociological concepts and theoretical frameworks used to understand the social structures and cultures that transcend and shape personal experience. Focusing on Canadian society in historical and comparative context, topics include power, differentiation, social control and socialization.

## 2000-Level Fundamental Courses

### AS/SOCI 2030 6.0 Sociological Methods.

This foundation course, presented in two related parts, deals with questions of how sociological knowledge is attainable both in principle and in practice, and provides the student with a general introduction to both qualitative and quantitative methods in social research.



**AS/SOCI 2040 6.0 Sociological Theory.** This foundation course deals with the construction, forms and uses of sociological theory, a brief history of theory and the classical texts of some of the great social theorists, and modern developments and current trends in sociological theory.

**AS/SOCI 2050 6.0 Social Structure and Social Change.** This foundation course deals with comparative and historical aspects of social life, political organization and the state, and modern industrial society. Special attention is given to the analysis of class, inequality and social change.

**AS/SOCI 2060 6.0 Social Interaction and Community.** This foundation course deals with processes of social interaction, socialization and self, and the relationship of the individual to society as exemplified in several substantive areas. Emphasis is given to understanding personal action and free will in a social context.

**AS/SOCI 2070 6.0 Social Order and Social Organization.** This foundation course deals with the problem of social order, how social organization is possible and its various forms. Special attention is given to formal organizations and institutions, as well as to the role of ideology, media and education.

### 3000-Level Courses

**AS/SOCI 3020 6.0 Classic Sociological Texts.** The aim of the course is to acquaint the student with the development of sociological theory from its origins to the present. Selected major theorists are considered and readings are chosen from original works.

**AS/SOCI 3030 6.0 Statistics for Social Sciences.** This course provides a basic understanding of the statistical reasoning and fundamental statistical techniques frequently used to analyse social data. It introduces students to the uses of computers and statistics in the social sciences. It helps develop necessary critical skills to evaluate empirical research.

*Cross-listed to: AS/POLS 3300 6.0.*

*Degree credit exclusions: AS/ECON 2500 3.0, AS/GEOG 2420 3.0, AS/GEOG 3421 3.0, AS/MATH 1131 3.0, AS/MATH 1132 3.0, AS/MATH 2560 3.0, AS/MATH 2570 3.0, AS/PSYC 2020 6.0, AS/PSYC 2021 3.0, AS/PSYC 2022 3.0, AS/SC/KINE 2050 3.0, AS/KINE 3150 3.0, or equivalent.*

**AS/SOCI 3060 6.0 Classic and Contemporary Issues in Social Psychology.** This course explores classic and current approaches to social psychology. Topics include self, social process, social interaction, interpersonal influences and group processes. Student participation in experimentation, participant observation, group discussion, research and discourse analysis is expected.

**AS/SOCI 3090 3.0/3090 6.0 Special Topics.** As the need arises, the department offers courses on particular topics not ordinarily available. Details on the topics covered in different sections of the course are given in the department's supplementary calendar.

**AS/SOCI 3110 3.0 Collective Behaviour.** This course analyzes forms of collective behaviour (crowd, mob, panic, fashion, cult) with a view to understanding their function in society. Factors conducive to the formation of such behaviour, characteristics of members, leadership and processes of social action are considered.

**AS/SOCI 3220 6.0 Cultural Sociology.** An examination of recent developments in the study of culture as they affect sociological thinking about contemporary society, drawing on sociological as well as other theories and approaches. Includes case studies on gender, popular culture, multicultural, aesthetics, nationalism, political economy of culture, ideology.

**AS/SOCI 3310 6.0 Canadian Society: A Sociological Analysis.** An examination of the nature of Canadian society from a sociological perspective. Concentrates on the social issues and problems of particular concern to this country. Also discusses the structure and power of Canadian legal, political, economic, religious and educational institutions.

**AS/SOCI 3330 6.0 Politics and Society in Latin America.** A cross-national analysis of relations between social organization and political systems, movements and ideologies. The evolution of large-scale regional contrasts in societal patterning is stressed. Major topics include class structure, ethnic and race relations, labour and economic organization, rural/urban divisions, demographic patterns, religion, the military and international influences.

**AS/SOCI 3340 6.0 Social Change.** Interpretations of large-scale social change are examined. The central theme is the origins and consequences of industrialization. A major concern will be the role of ideas and ideologies, as well as material forces in social change.

**AS/SOCI 3350 3.0 Social Movements.** Topics studied include the causes, characteristics, processes and consequences of social movements; the appeal, ideology, organizational structure, strategies, and tactics of social movements; and the process of becoming committed to a social movement.

**AS/SOCI 3410 6.0 Social Stratification.** Theories about social equality and inequality are analyzed, in industrial and non-industrial, democratic and non-democratic societies. The course considers the influence of differential privilege on social behaviour and institutions, and problems of upward and downward mobility.

**AS/SOCI 3420 6.0 Population and Society.** Students study Canadian population trends and policy debates in comparison to global population issues. Topics may include Canadian and global patterns of population growth; urbanization and urban reversal; fertility, family planning and abortion; famine,

disease and mortality; social security and aging; international migration and ethnic composition.

**AS/SOCI 3430 6.0 Ethnicity, Power and Identity.** This course examines the social construction of ethnicity drawing on several sociological perspectives. The shaping of ethnicity by colonialism, nation-building, racism, the state and migration, and issues such as assimilation, identity, power and conflict, are considered historically and comparatively, focusing on Canada.

*Degree credit exclusion: AS/SOCI 3430 6.0 offered in previous years.*

**AS/SOCI 3450 6.0 The Sociology of "Race" and Racism.** This course offers a sociological critique of "race" and racism by examining both the concept and practices in terms of social organization, discourse and history. Biogenetic and cultural racism are investigated in terms of knowledge frameworks involving gender and class.

**AS/SOCI 3600 3.0 The Sociology of Work and Industry.** In this course, work is viewed as a social problem. Topics include the meaning of work, the theory of alienation, evolving patterns of industrialization and labour relations, occupational cultures, the de-skilling of work, and solutions to alienated labour. The theories of post-industrial society are examined.

**AS/SOCI 3610 3.0 The Sociology of Occupations and Professions.** The focus of this course is on occupational systems, careers and the professions. The topics of occupational socialization, identity and subcultures, role relationships in work groups, the process of professionalization, relationships to clients and the significance of organizational contexts are explored.

**AS/SOCI 3620 6.0 Formal Organizations.** Among the topics considered are theories of bureaucratic organizations, the relationship between formal and informal structures, official-client relationships, the effects of organizations upon their members and the relationship of organizations to one another and to the community.

**AS/SOCI 3630 6.0 Sociology of Education.** The relationship of the educational system to the social structure is examined. Among topics to be considered are the role of education in social change, the school as a social system and the school as an agency of socialization.

**AS/SOCI 3640 6.0 Political Sociology.** The social bases of political order and conflict in modern societies will be analyzed. Data will be drawn from studies of policy formation, voting behaviour, civic participation, collective protest and political aspects of social change in old and new nations.

**AS/SOCI 3650 6.0 Sociology of Religion.** Religion in relation to social structure and process. Religious organizations and institutions. Particular attention is given to theorists of the sociology of religion, from Weber and Durkheim to Parsons.

**AS/SOCI 3660 6.0 Sociology of the Family.** This course focuses on the sociological study of the family as an institution and small group. Attention is given to variations in family life, role relationships, family structure, socialization processes and problems of family organization and disorganization.

*Degree credit exclusion: AS/SOSC 3150 6.0.*

**AS/SOCI 3670 3.0 Sociology of Sport.** Sport is used in this course as a medium for testing sociological theory. Topics are organized around the effects of involvement in sport on those who "play," consume and produce it.

*Degree credit exclusion: AS/KINE 3620 3.0, AS/SC/PHED 3620 3.0.*

**AS/SOCI 3690 6.0 Sociology of Gender.** This course analyzes economic, social, cultural and political aspects of gender formation in a comparative context and in Canada. Emphasis is on the different ways in which femininity and masculinity are constituted in interaction with race, class and other factors.

**AS/SOCI 3710 6.0 Environmental Sociology.** This course explores sociological approaches to the interaction between humans and their bio-physical environment; the history of ecology and contemporary social ecologies; contending explanations for environmental problems; and the history of environmental movements and organizations.

**AS/SOCI 3810 6.0 Sociology of Crime and Delinquency.** Crime and delinquency is examined from the perspectives of deviance theory, social psychology and social organization. The police, the courts and the penal system are examined; research from different countries is discussed.

**AS/SOCI 3820 6.0 Sociology of Health and Health Care.** Social factors related to health and physical and mental illness are discussed, as well as the social organization of systems of health care.

**AS/SOCI 3830 6.0 Sociology of Urban Life.** An examination of the process of urbanization and its implications for regional rural-urban systems, the city as an information-processing system and the experience of living in cities. Sub-groups within the city (e.g. neighbourhoods and social networks) and urban institutions are also be analyzed.

**AS/SOCI 3840 6.0 Mass Communications.** A sociological analysis of the press, radio, television and other mass media. Empirical and theoretical studies are discussed to show the growth, structure, content and impact of the media, and their relationship to popular culture.

**AS/SOCI 3850 3.0 Social Gerontology.** A course dealing with the social and psychosociological aspects of aging, retirement and dying. The emphasis is on the social interpretation of aging and the role/status of the aged in society.

#### 4000-Level Courses

*Note: For all 4000-level courses (unless otherwise indicated), students must have successfully completed at least 84 credits. However, third year Honours students who have successfully completed at least 78 credits who are also taking summer courses may enrol.*

**AS/SOCI 4000 6.0 Honours Thesis.** The advanced student has an opportunity in this course to prepare a paper on the topic of the student's own choice and to work independently of direct classroom supervision.

**AS/SOCI 4010 6.0 Strategies of Social Research.** This course continues the exploration of various modes of empirical research. It studies the relationship between theory and research, and the applicability of the results of empirical research in social and political practice.

**AS/SOCI 4014 3.0 Comparative Sociology: Societies Across Time and Space.** This course reviews major issues in the comparative analysis of societies. Its focus is macrosociological and societies themselves are taken as the central unit of analysis. This course covers industrial societies, agrarian states and non-state societies.

*Degree credit exclusion: AS/SOCI 4090M 3.0.*

**AS/SOCI 4030 6.0/4030 3.0 Independent Reading.** A full year reading course (or half year course in either term) may be taken by prior arrangement with an instructor.

*Note: Please consult the Faculty of Arts "Academic Advising and Student Responsibility" section for regulations on independent reading courses.*

**AS/SOCI 4050 3.0 Issues in Qualitative Research.** An in-depth examination of selected qualitative methods in social research. Theoretical implications and practical applications of the methods are also considered. The course examines historical methods, field and observational methods, ethnomethodology, focused interviewing, ethnographic methods, documentary or textual analysis.

**AS/SOCI 4055 6.0 Everyday Life in the Metropolis: Fieldwork Studies in Toronto.** This is an ethnographic course which seeks to explore various features of urban life which characterize the metropolis as it appears to diverse categories of its users, e.g. multicultural residents, tourists, practitioners of urban occupations, politicians and planners. Students are required to make observations in Metro Toronto.

**AS/SOCI 4060 3.0 The Sociology of Parent/Child Relations.** This course examines the parent-child relationship as interactive process within social structure. This relationship is explored in terms of reciprocity, multiple levels, the dynamic lifespan model and the mediation role of social and cultural factors such as class and ethnicity.

**AS/SOCI 4070 6.0 The Semiotics of the Body.** The course examines a variety of sign systems which code the body's behaviour (e.g. dressing, eating, dieting, fitness) as the vehicle for larger institutions (political, economic, religious) which require the body's inscription and conscription.

**AS/SOCI 4072 3.0 Sociology of Human Reproduction.** This course seeks to describe and analyze contemporary rapid social change occurring in the knowledge, conduct and regulation of human reproduction, investigating this change across multiple institutional sites such as techno-science, kinship, the health system and social movements.

*Prerequisites: One of AS/SOCI 3660 6.0, AS/SOCI 3820 6.0, AS/SOCI 3690 6.0, 4300 3.0 or AS/ANTH 3330 6.0, or permission of the course director.*

*Degree credit exclusions: AS/SOCI 4090H 3.0 in Fall/Winter 1989-1999, 1999-2000.*

**AS/SOCI 4075 3.0 Sexuality, Social Practices and Modernity.** This course places sexuality in the context of societal processes and practices, and critically examines a number of major contemporary social theories concerning sexuality.

**AS/SOCI 4080 6.0 Practicum in Survey Research Methods.** This course provides the theoretical background and practical skills needed to conduct surveys. Using computerized telephone survey facilities of the Institute for Social Research, students take part in questionnaire design, interviewing, data processing, statistical analysis and report writing.

*Cross-listed to: AS/POLS 4340 6.0.*

**AS/SOCI 4090 3.0/4090 6.0 Special Topics.** As the need arises, the department offers courses on particular topics not ordinarily available. Details on the topics covered in different sections of the course are given in the department's supplementary calendar.

**AS/SOCI 4100 6.0 Brain and Behaviour.** This course examines findings from various disciplines in the brain sciences in relation to the study of culture, society and the individual. Of particular importance is the relation of brain structure to human socialization and the cultural impact of mental illness and behaviour dysfunctions.

**AS/SOCI 4120 6.0 Social Organization and Urban Culture.** This course examines how urban residents experience and utilize urban environments so as to generate social choices. The ways in which urban planning, architecture and ownership status combine to influence the mix of public and private involvements are of special interest.

**AS/SOCI 4200 6.0 The Sociology of Conflict and Cooperation.** This course analyzes the relationship between conflict and cooperation and explores the causes, characteristics and consequences of both processes in a variety of different social organizational settings.

**AS/SOCI 4210 3.0 Economic Sociology.** This course examines the impact of market forces on society and the efforts by society to tame the market. Topics include: the origins of capitalism, social resistance to market forces; and changes in social class, gender roles, family organization and race/ethnic relations which accompany economic transformation.

**AS/SOCI 4230 6.0 Sociology of Ethnic Groups.** An examination of the process by which immigrant groups become detached from their homelands and integrate into Canadian society. Each year the focus is on different groups such as Italians, Chinese, Polish and Ukrainian. This course focuses on change in the homeland and adaptation to life in Canada.

**AS/SOCI 4300 3.0 Sociology of Health Care Delivery.** The course examines the theoretical models sociologists employ in analyzing relationships within the health care system. It shows how the medical and other health professions have developed in Canada within the context of the growth and change of the medicare system, its organization and administration.

**AS/SOCI 4350 3.0 International Migration.** The course examines emerging patterns of international migration and refugee flows. Particular attention is given to the recent rise of emigration from Asia, the Caribbean and Latin America to North America. These flows are studied from the perspective of global trends in political economy, development and underdevelopment, and social-cultural ties and networks.

**AS/SOCI 4390 3.0 International Migration: Immigration, the State and Transnationalism.** This course introduces theoretical perspectives on transnational migration, focusing on immigrant incorporation, citizenship, the host state, relations with the home state/community and transnationalism. Comparative material from various regions may be used.

**AS/SOCI 4400 3.0 Historical Sociology.** This course examines a variety of recent studies that cross the boundary of history and sociology, including such topics as: historical changes in family, education, women's lives, ethnicity and social class. Both theoretical and empirical materials are considered.

**AS/SOCI 4410 3.0 Sociology of Poverty.** The social causes of poverty are explored. The focus is on the consequences of poverty for society, areas and individuals. Life opportunities, health and relationships are considered. Key demographic variables are gender, age, ethnicity and marital/parental status.

*Degree credit exclusion: AS/SOCI 4090R 3.0 (from Fall/Winter 1998-1999 to 2000-2001).*

**AS/SOCI 4420 6.0 Contemporary Social Issues of North American Native Peoples.** This course explores contemporary North American aboriginal issues, organizing them in relation to theoretical and substantive areas in sociology, such as the psychology of the self, social movements, environmental sociology, and the sociologies of religion, the family and education.

**AS/SOCI 4430 3.0 Canada and Refugees.** This course offers a comprehensive sociological assessment of some current issues and research in refugee migration. Primary emphasis is on Canada's refugee policy and responses to it. The unique experiences and adaptation problems of refugee resettlement are examined, with particular attention to Third World refugees in Canada.

**AS/SOCI 4440 6.0 Racialization, Discrimination and the Law.** This course critically examines the relationship between law and social inequality, treating law and justice as contradictory. The focus is on the place of law in forming racialized groups, but also deals with gender, sexual orientation, class and age stratification.

*Degree credit exclusion: AS/SOCI 4440 6.0 in prior sessions.*

**AS/SOCI 4450 6.0 Women in Development.** The course explores the theme of women in development in its different meanings. The issue of development is analyzed in terms of global economy, national states, popular movements and discourse with emphasis on women, gender and class analysis and feminist politics.

*Degree credit exclusion: AS/SOCI 4090Q 6.0.*

**AS/SOCI 4460 3.0 Sociological Understandings of Genocide.** Using comparative methods, students study the Holocaust, the Armenian genocide, the "ethnic cleansing" in Bosnia-Herzegovina and other genocides from several sociological theoretical perspectives in order to understand the causes, experiences and consequences of genocide and to investigate solutions.

**AS/SOCI 4470 3.0 Sociology of Sex and Gender.** This course considers a variety of theories concerning the relation between sex, sexuality and gender identity. Theories to be covered are those of Freud, Michel Foucault on the history of sexuality and those of a number of psychoanalytic feminist theorists.

**AS/SOCI 4500 6.0 Popular Culture and Social Practice in Canada.** An examination of attempts by sociologists and critical theorists to come to terms with cultural processes and forms, paying particular attention to contemporary popular culture in Canada.

**AS/SOCI 4600 6.0 Feminist Theories and Methodology.** This course provides a critical analysis of varieties of feminist theories and methodologies as they have been derived from women's examination of social relations and

practices. Theories arise from and organize perspectives of the world that generate and legitimate particular understandings. In questioning the process of theorizing, issues of difference in race, class, able-bodied and sexual orientation are examined.

**AS/SOCI 4610 6.0 Women, the Welfare State and Social Policy.** This course uses gender analysis to examine the ideologies and practices underling social-welfare policies. Diverse concepts, theories and debates that have informed scholarly discourse and research on the relations between women and the state are critically reviewed.

**AS/SOCI 4620 6.0 Issues in Sociology of Work and Labour.** This course examines changes in the labour process and the relationship between labour and management. We study labour segmentation, marginalization, techniques of control, the impact of new technologies on the labour process and unions' responses to workplace and economic change.

**AS/SOCI 4630 6.0 Comparative Education: Focus on Transitions, Schooling to Employment.** This course discusses various educational issues including accessibility, social mobility and labour market ties and is organized around Canadian materials with comparisons made to other countries. Students are shown how to effectively analyze issues by comparative methods.

**AS/SOCI 4660 3.0 Child Socialization.** This course adopts an interdisciplinary approach in which the insights and techniques of sociology, anthropology and psychology are combined to examine childhood socialization. The data are cross-cultural and comparative, with special emphasis on childhood in Canada.

**AS/SOCI 4670 3.0 The Social Self.** This course examines classical and contemporary sociological theories of self — the development of the self concept, its effects in interaction and its stability or change over time. Implications of the self in relation to the wider society are explored.

**AS/SOCI 4680 3.0 Women and Ageing.** This course examines the intersection of ageing and gender. The course emphasizes a social psychological and feminist perspective and thus gives primary attention to the symbolic and social construction of ageing.

**AS/SOCI 4685 6.0 Feminist Perspectives on Families, Gender and the State.** This course focuses on four major theoretical feminist perspectives on families, gender and the state. Exploring issues such as regulation of sexuality, division of labour and income, violence, childcare and reproduction of race and class.

*Degree credit exclusion: AS/SOCI 4090B 6.0.*

**AS/SOCI 4700 3.0 Environmental Sociology: Political Ecology.** The course introduces a political ecology method which situates environmental problems in ecological and political economic contexts. Students use

political ecology to analyze local and third world environmental controversies. The course assumes familiarity with social aspects of environmental studies.

*Degree credit exclusion: AS/SOCI 4090S 3.0.*

**AS/SOCI 4810 6.0 Women and the Criminal Justice System.** This course analyzes theory and research on the incidence and treatment of child, adolescent and adult women who are offenders (e.g. theft, homicide), victims (e.g. sexual and physical assault) and professionals (e.g. police, judges) in the criminal justice system.

**AS/SOCI 4830 3.0 Childhood and Violence.** This course explores violence experienced by children and violence committed by children. The course explores the ways that children and adults learn, use and experience violence (physical and sexual) in societal settings such as schools, churches, television and war.

**AS/SOCI 4840 6.0 Sociology of Policing.** This course is an introduction to theories of policing applied to the sociology of control. Topics include: ideologies of profit and peace; history and political economy; reproductions of class, race and gender; policing and the state; local/global and private/public controls.

**AS/SOCI 4850 3.0 Organized Crime.** Course examines national and international organized crime issues and focuses on links between organized crime and the global economy; the relationship between organized crime and social/political environments; theoretical explanations and the evolution of commodities involved in diverse organized crime markets.

**AS/SOCI 4910 6.0 The Sociology of Knowledge.** An analysis of the role of ideas in the development of social institutions and the impact of society on belief systems. The social organization of knowledge is examined with reference to selected institutional areas such as science, politics, education, religion, the arts and the professions.

**AS/SOCI 4920 6.0 Communication and Community.** This course critically analyzes relationships between language use and the structuring of social interaction and more broadly, between forms of communication and forms of community. Special attention is given to the concept of distorted communication and to socially significant abuses of language.

**AS/SOCI 4930 6.0 Sociology of Science and Technology.** This course focuses on the role of science and technology in social life, especially examining the contributions of human agency to creating and sustaining a social-cultural world that is infused with scientific knowledge and technological know-how.

**AS/SOCI 4970 3.0 The Sociology of Adult Development.** This course is concerned with the adult life span and its stages, and studies how adults develop, change, adapt and stabilize their interpersonal and social roles.

The key stages of the adult life cycle that is emphasized include having children, mid-life, entering a new marital status, facing new work roles and approaching old age. Coping ability and health consequences are emphasized.

## Statistics – Arts, Pure and Applied Science

*See Mathematics and Statistics.*

## Stong College – Arts

**Academic Program Office:**

314B Stong, 416-736-5132

**College Master:**

Eric Willis

**Academic Adviser:**

Gail Vanstone

*Note: Not all courses will necessarily be offered in any given year; for details of courses to be offered consult the academic program office.*

Listed below are the 1000-level and 2000-level nine-credit Foundations courses which are part of the Faculty of Arts General Education requirement. These courses introduce students to interdisciplinary study and emphasize critical thinking, reading and writing skills at the university level and reflect the academic mandate of the college.

Students enrolling in Stong College Foundation courses, in either the Division of Humanities or the Division of Social Sciences, will be members of Stong College with access to academic advising, orientation programs, social and cocurricular events.

### 1000-Level Courses

**AS/HUMA 1105 9.0 Myth and Imagination In Greece and Rome.** An introduction to ancient and modern myths and theories about myths and mythology in comparative perspectives and their influences on modern literature and art.

*Degree credit exclusion: AS/HUMA 1105 6.0.*

**AS/HUMA 1200 9.0 The Canadian Experience.** Topics illustrating the ways in which culture in Canada resembles and is different from other cultures. The emphasis is on the 20th century. Materials to be used include fiction, poetry, folklore, the visual arts, and various social and historical studies.

*Degree credit exclusion: AS/HUMA 1200 6.0.*

**AS/HUMA 1220 9.0 Canadian Language and Culture.** This course develops the linguistic/academic skills of students from English as a Second Language background, using themes such as, Language and Communication, Culture and Identity, the Immigrant/Refugee experience and Multiculturalism. Course activities focus on developing English proficiency while exploring these themes.

*Degree credit exclusions: AS/HUMA 1220 6.0, AS/ESL 1000 6.0.*

*Cross-listed to: AS/ESL 1000 9.0.*

**AS/HUMA 1620 9.0 Archetypal Themes in Literature.** An interdisciplinary examination of those recurring patterns, narrative structures and images in Western culture which have the power to express (symbolize) our quest for meaning and values. Readings are selected from a broad range of cultures and eras in order to focus upon the dynamic persistence of these motifs and the variety of works in which they occur.

*Degree credit exclusion: AS/HUMA 1620 6.0.*

**AS/HUMA 1970 9.0 Worlds of Childhood.** An exploration of childhood as an aspect of human experience represented in many forms in various cultures over time.

*Degree credit exclusion: AS/HUMA 2215 6.0.*

**AS/HUMA 2160 9.0 Romanticism and Its Legacy.** A study of Romanticism with an emphasis on its values as expressed in the arts, chiefly in the Romantic era, through historical, literary, musical and philosophical texts and works from the visual arts.

*Degree credit exclusion: AS/HUMA 2160 6.0.*

**AS/HUMA 2320 9.0 Ideas of America: the Cultures of North America.** This course undertakes a study of major artistic, historical, philosophical and/or political texts by and about North Americans.

*Degree credit exclusion: AS/HUMA 2320 6.0.*

**AS/HUMA 2670 9.0 Film and Literature.** The nature of film is explored through detailed comparison with fiction and drama. The different possibilities of drama, narrative and language in film and in literature are emphasized.

*Degree credit exclusions: AS/HUMA 2670 6.0, FA/FILM 2711 6.0.*

**AS/HUMA 2680 9.0 Early Times: Literature and the Imagination of the Child.** The course is centered, in the reading and discussion of literature written for, appropriated by, or in a particular sense related to children.

*Degree credit exclusion: AS/HUMA 3650 6.0.*

**AS/SOSC 1012 9.0 Understanding Social Theory.** This course provides an interdisciplinary perspective on the emergence of Social Theory from political theory, philosophy and economics. It presents the roles in this process of ancient philosophy and political theory, and of their counterparts in early modern thought.

**AS/SOSC 1185 9.0 Women and Society.** This course examines images of women and explores women's experiences in the family, in school, at the workplace, and in relation to the issues of poverty, violence, health and sexuality.

*Degree credit exclusion: AS/SOSC 1180 6.0.*

**AS/SOSC 1960 9.0 Introduction to Social and Political Thought.** This course provides a broad introduction to the interdisciplinary study of modern social and political thought. Through critical reading and analysis of primary texts, students become familiar with the rise of the

liberal tradition, focusing on critiques, defenses and developments of its conceptions of the modern world.

*Degree credit exclusion: AS/SOSC 1990B 6.0.*

**AS/SOSC 2410 9.0 Developing Countries: Diversities and Contradictions.** The course examines the societies of Asia, Africa and Latin America with emphasis on the human dimension of modernizing processes, neo imperialism, political stability and instability, economic development and lack of development, and the solutions adopted in specific countries.

*Degree credit exclusion: AS/SOSC 1410 6.0.*

**AS/SOSC 2960 9.0 Italian: A Minority Culture and Language in North American Society.** This course investigates the effects North American culture and language have on the lives of Italian immigrants and their descendants.

*Degree credit exclusions: AS/SOSC 2990C 6.0, AS/IT 2791 6.0, AS/IT 2790 6.0.*

*Cross-listed to: AS/IT 2971 9.0.*

## Theatre – Fine Arts

### Department Office:

318 Centre for Film and Theatre, 416-736-5172

### Chair of the Department:

P. McKinnon

### Professor:

D. Rubin

### Professors Emeriti:

K. Bradley, D. Buck, J.G. Green, J. Henry, A. Stephenson

### Associate Professors:

D. Bentley-Boice, I. Buchli, J. Courtney, R. Fothergill, P. McKinnon, D. Rotenberg, J. Rudakoff, A.I. Schlosser, P. Silver, R. Singer, D. Smukler, R. Stuart

### Assistant Professors:

S. Kerwin, P. Lampert, J. Mayberry, D.M. McCaugherty, T. Przybylski, P. Thomson

## General Information

York's Department of Theatre, with 17 full-time faculty members teaching more than 60 half- or full-year courses for majors, is the largest theatre department in Eastern Canada. Because of the department's location in Metropolitan Toronto, students have access to Canada's biggest concentration of English-language professional theatre companies and artists.

The Department of Theatre offers the BA, BA Honours and BFA Honours degree programs, providing students with different approaches to achieving their own theatrical goals. (For information on the MFA in acting, directing and playwriting see the Faculty of Graduate Studies Calendar.)

All students must be evaluated by the department before being admitted. Students with credits from other postsecondary institutions may be placed in first- or second-year courses, depending on their background and ability. Admission to courses above the first-year level is usually by audition, portfolio and/or interview, with the students' work in first year both within the department and the

University given particular emphasis. Advancement within the department is based upon demonstrated proficiency in one or more aspects of theatre and a satisfactory academic standing as defined in this Calendar. It should be noted, however, that a satisfactory academic standing in itself does not guarantee admission to any course. Be aware that the study of theatre requires a special commitment and demands enormous amounts of time and energy.

The first undergraduate year is a foundation year for Theatre majors to learn about all aspects of theatre, to get involved in both acting and backstage work, and to understand theatre as it existed in other times and places. In this year, students must also complete several courses in other areas of the University. In their remaining years, students may choose a broad program of study or follow a more specialized option in acting, creative ensemble, production, design, playwriting and dramaturgy, criticism, dramatic literature or theatre history.

Most majors take far more than the minimum number of courses in theatre and, for that reason, the department recommends completing the general education requirements as soon as possible. The BA Honours degree, which is usually chosen by those considering graduate study and careers in teaching or writing, requires at least 48 credits in theatre with a majority of these in theatre studies. The BFA Honours degree for professionally oriented students in acting, directing, playwriting and dramaturgy, production and design allows students to take up to 81 credits in Theatre, the majority in studio. Detailed regulations and programs of study are available in the Faculty of Fine Arts section of this Calendar and in the department's handbook.

The following courses are required of all Theatre Honours majors: FA/THEA 1010 3.0 Introduction to Acting I; FA/THEA 1100 3.0 Stagecraft I; FA/THEA 1200 6.0 Theatre Survey I; FA/THEA 2200 6.0 Theatre Survey II; FA/THEA 3200 6.0 Theatre Survey III; and either FA/THEA 2150 3.0 Introduction to Theatre Management or FA/THEA 4150 3.0 Professional Aspects of the Theatre. In addition, courses within each area – performance, production and theatre studies – are subject to prerequisites and corequisites. Consult the department handbook for details.

Students pursuing an Honours degree in the Faculty of Arts may combine a 42 credit or 48 credit Honours major in an Arts discipline with a second major in Theatre (theatre studies or production streams only.) Honours degree students in the Faculties of Arts, Environmental Studies, or Fine Arts may also qualify for a 30 credit Theatre minor in theatre studies or theatre production. For details contact the department.

Department classes and productions are only part of the excitement of studying at York University. The Centre for Film and Theatre provides a focus for most departmental activities. Winters College is a designated Fine Arts College and home for many students.

Professionals from across Canada, the US, England, France, Eastern Europe, China and other countries have come to York University to share their vision and expertise.

## Courses in Theatre

Three credit courses usually meet three to four hours a week for one term. Six credit non-studio courses meet either three or four hours a week for the whole academic year. Six credit studio courses meet either six or eight hours a week for the whole year. Additional rehearsal and/or crew hours are often required. Not every course listed here is offered every year.

### FA/THEA 1010 3.0 Introduction to Acting I.

A studio-oriented survey of the principles and problems of acting stressing the ensemble and including an introduction to theatre movement and voice, improvisational techniques and scene study. Required of all first-year Theatre majors. Open only to Theatre majors.

*Corequisites: FA/THEA 1200 6.0 and FA/THEA 1100 6.0.*

*Note: Plus two rehearsal hours per week.*

### FA/THEA 1011 3.0 Introduction to Acting II.

A continuing exploration of the techniques and exercises commenced in FA/THEA 1010 3.0. Open to Theatre majors only, but not required.

*Prerequisite: FA/THEA 1010 3.0.*

### FA/THEA 1100 3.0 Stagecraft I. An

introduction to the fundamentals and vocabulary of design, lighting and stagecraft (in any given year this could include sound, props, paint etc.). Material fee required.

*Degree credit exclusion: FA/THEA 1100 6.0.*

*Note: Open to Theatre majors only.*

### FA/THEA 1110 3.0 Stagecraft II.

Continues the introduction to the basics of theatrical production begun in FA/THEA 1100 3.0. Material Fee required.

*Degree credit exclusion: FA/THEA 1100 6.0.*

*Note: Open to Theatre majors only.*

*Note: Evening and/or weekend crew work on department productions is required, as well as lab hours.*

### FA/THEA 1200 6.0 Theatre Survey I.

The first of a three-year cycle of courses investigating the historical evolution of theatre from its origins to the present time. Theatre Survey I begins with a foundational encounter with diverse forms of theatre from different epochs, integrating analytical reading with studio explorations of performance possibilities and proceeds to a survey of theatre and drama from classical Athens to Elizabethan London. Required of all first-year Theatre majors. Open to Theatre majors and minors only. Attendance at Prime Time is required.

*Corequisites: For Theatre majors, FA/THEA 1010 3.0 and FA/THEA 1100 6.0.*

### FA/THEA 1500 6.0 Aspects of the Theatre.

Of interest to anyone who wants to understand the complex elements that go to make up theatre. From script selection through

directing, design, production, casting and promotion, to opening night and the role of the critic. The course is built around many on- and off-campus productions and is aimed primarily at people who are or will become patrons of the arts. The course offers students special rates for required professional productions.

*Note: Not open to Theatre majors.*

**FA/THEA 1510 3.0 Theatre Behind the Scenes.** A survey of design and production process for theatre.

*Degree credit exclusion: AK/THEA 3131 3.0.*

*Note: Not open to Theatre majors.*

**FA/THEA 1520 3.0 Acting for Non-majors.** A survey of the principles and problems of acting.

*Note: Not open to Theatre majors.*

**FA/THEA 2000 6.0 Production Practicum (Summer only).** An introductory practicum in production technique usually based on training and experience with a professional theatre.

*Prerequisite: By special arrangement with the production area.*

**FA/THEA 2010 3.0 Voice I.** An introduction to the rudiments of voice training for the actor with an introduction to the speaking of prose and poetry.

*Prerequisites: FA/THEA 1010 3.0, FA/THEA 1100 6.0, FA/THEA 1200 6.0 and/or audition plus permission of the department.*

*Corequisites: FA/THEA 2020 3.0, FA/THEA 2030 3.0.*

**FA/THEA 2011 3.0 Voice II.** Intensive application and further development of the work begun in FA/THEA 2010 3.0 with the addition of speech training.

*Prerequisites: FA/THEA 2010 3.0 and permission of the department.*

*Corequisites: FA/THEA 2021 3.0 and FA/THEA 2031 3.0.*

**FA/THEA 2020 3.0 Acting I.** An examination of acting techniques, approaches to character development plus a more intensified approach to dramatic texts, including script analysis.

*Prerequisites: FA/THEA 1010 3.0, FA/THEA 1100 6.0, FA/THEA 1200 6.0 and/or audition plus permission of the department.*

*Corequisites: FA/THEA 2010 3.0 and FA/THEA 2030 3.0.*

**FA/THEA 2021 3.0 Acting II.** Intensive application and further development of work begun in FA/THEA 2020 3.0.

*Prerequisites: FA/THEA 2020 3.0 and permission of the department.*

*Corequisites: FA/THEA 2011 3.0 and FA/THEA 2031 3.0.*

**FA/THEA 2030 3.0 Movement I.** An introduction to the rudiments of the physical techniques necessary for the actor. It is the beginning of building a vocabulary of movement, self-discipline and learning how to solve individual problems.

*Prerequisites: FA/THEA 1010 3.0, FA/THEA 1100 6.0 and FA/THEA 1200 6.0 and/or permission of the department.*

*Corequisites: FA/THEA 2010 3.0 and FA/THEA 2020 3.0.*

**FA/THEA 2031 3.0 Movement II.** Intensive application and further development of the work begun in FA/THEA 2030 3.0.

*Prerequisites: FA/THEA 2030 3.0 and permission of the department.*

*Corequisites: FA/THEA 2011 3.0, FA/THEA 2021 3.0.*

**FA/THEA 2050 3.0 Creative Ensemble I.** The primary phases of creating original theatre will be explored in this course through the gathering, refining and performing of material in an intense, collaborative environment. Projects will be assigned to provide a unique opportunity to devise theatre within a creative ensemble. The essential questions of the theatre practitioner will be addressed through classroom exercises and through the successive stages of research and rehearsal of performance pieces.

*Prerequisites: FA/THEA 1010 3.0, FA/THEA 1100 6.0 and FA/THEA 1200 6.0 and permission of the Theatre Department.*

**FA/THEA 2051 3.0 Creative Ensemble II.** A continuation and development of the work begun in FA/THEA 2050 3.0.

*Prerequisite: FA/THEA 2050 3.0.*

**FA/THEA 2060 3.0 Voice and Speech.** A basic course in speech involving exercises in the production of tone, the shaping of sound into words and the use of the voice as an instrument of interpretation and expression. In addition to basic voice and articulation work, students explore the oral performance of non-dramatic literature and the principles of public speaking.

*Cross-listed to: AK/THEA 2060 3.0.*

**FA/THEA 2090 3.0 Elements of Mime.** An introduction to the art of mime.

*Cross-listed to: AK/THEA 2100 3.0.*

**FA/THEA 2100 3.0 Production Practicum.** Required of all second year students working in production and design, this course gives students the opportunity to learn and practise the technical and management skills associated with creating a production. Open only to Theatre majors and minors.

*Prerequisite: FA/THEA 1100 6.0 with a minimum grade of C+ and permission of the Production Area.*

*Corequisite: FA/THEA 2110 6.0.*

**FA/THEA 2110 6.0 Stagecraft II.** An in-depth exploration into the practical elements of production, which will normally include organization, structural theory and advanced scenic construction, drafting, and materials and tools. Required of all second-year students working in production and design. Material fee required. Open to Theatre majors and minors only.

*Prerequisite: Permission of the Production Area and a minimum grade of C+ in FA/THEA 1100 6.0.*

*Corequisite: FA/THEA 2100 3.0.*

**FA/THEA 2120 3.0 An Introduction to Costuming.** An introduction to costume drafting, construction and maintenance. Emphasis is placed on the proper use of equipment and employment of techniques of costuming. Materials fee required.

*Prerequisite: FA/THEA 1100 6.0 or FA/DANC 1270 3.0 or permission of the course director.*

**FA/THEA 2130 3.0 Techniques of Lighting.** Introduction to theatrical lighting. Open to non-majors with permission of course director.

*Note: Students enrolled are expected to serve on one lighting crew for a departmental production.*

**FA/THEA 2140 3.0 Introduction to Stage Design.** An Introduction to the history, theory and practice of stage design, taught in seminar and studio format. Students are expected to have suitable drafting and artists' supplies. Some materials will be provided, for which a material fee is required.

*Corequisite: FA/THEA 2410 6.0 or permission of the course instructor.*

**FA/THEA 2143 3.0 About Design.** A non-specialist studio course exploring the techniques of theatrical design with particular focus on set design learned from exercises in text analysis, historical research, conceptualization, sketching, model making and drafting.

*Degree credit exclusion: AK/THEA 3132 3.0.*

**FA/THEA 2150 3.0 Introduction to Theatre Management.** An introduction to the principles of theatre management and organization including staffing, budgeting, fund raising, box office and production management.

*Note: This course or FA/THEA 4150 3.0 is required of all Theatre majors. Open to non-majors by permission of the course instructor.*

**FA/THEA 2200 6.0 Theatre Survey II.** Building on the foundations established in Theatre Survey I, this course traces the evolution of theatrical style and dramatic form from a historical and developmental perspective, concentrating on phases of major theatrical innovation from earliest times up into the 20th century and relating them to their social and cultural contexts. Required of all second-year Theatre majors. Open to majors and minors only.

*Prerequisite: FA/THEA 1200 6.0.*

*Note: Attendance at Prime Time is required.*

**FA/THEA 2210 3.0 The Idea of Theatre.** As a basis for continuing work in Theatre Studies, this course examines questions about the nature of theatre and its role in society. Required of all second-year Theatre Studies students.

*Prerequisite: FA/THEA 1200 6.0.*

*Corequisite: FA/THEA 2200 6.0.*

**FA/THEA 2410 6.0 History of Visual Sources for Theatrical Design.** A survey course relating the architecture, art, clothing, interior design and furnishings of Western civilization to the theatre. The course also touches on the visual aspects of the theatrical styles of various periods. Material fee required. Required of all production and directing students. Others by permission of the course director.

**FA/THEA 2500 6.0 Stage and Screen.** Drawing on dramatic texts and film and video resources, this interdisciplinary course explores and celebrates the relationship between theatre and film, including the stylistic and structural principles of live theatre and motion pictures as distinctive media, and theatre reconceived and adapted for cinema and television. The course includes outstanding plays, films and attendance at live theatre performance. Note: Not open to Theatre or Film & Video majors except by special permission. (Same as FA/FILM 2500 6.0)

**FA/THEA 3000 6.0 Production Practicum (Summer only).** An intermediate practicum in production technique usually based on training and experience with a professional theatre.

*Prerequisite:* By special arrangement with the production area.

**FA/THEA 3010 3.0 Voice III.** This intermediate level course is a continuation of techniques, principles and explorations in voice, speech and text for the actor.

*Prerequisites:* FA/THEA 2011 3.0 and permission of the department.

*Corequisites:* FA/THEA 3020 3.0 and FA/THEA 3030 3.0.

**FA/THEA 3011 3.0 Voice IV.** Intensive application and further development of the work begun in FA/THEA 3010 3.0.

*Prerequisites:* FA/THEA 3010 3.0 and permission of the department.

*Corequisites:* FA/THEA 3021 3.0 and FA/THEA 3031 3.0.

**FA/THEA 3020 3.0 Acting III.** An examination of acting techniques, approaches to character development and beginning examination of theatrical styles.

*Prerequisites:* FA/THEA 2021 3.0 and permission of the department.

*Corequisites:* FA/THEA 3010 3.0 and FA/THEA 3030 3.0.

*Note:* Plus rehearsal hours.

**FA/THEA 3021 3.0 Acting IV.** Intensive application and further development of work begun in FA/THEA 3020 3.0.

*Prerequisites:* FA/THEA 3020 3.0 and permission of the department.

*Corequisites:* FA/THEA 3011 3.0 and FA/THEA 3031 3.0.

**FA/THEA 3030 3.0 Movement III.** This intermediate level course is a continuation of techniques, principles and explorations in movement for the actor.

*Prerequisites:* FA/THEA 2031 3.0 and permission of the department.

*Corequisites:* FA/THEA 3010 3.0 and FA/THEA 3020 3.0.

**FA/THEA 3031 3.0 Movement IV.** Intensive application and further development of the work begun in FA/THEA 3030 3.0.

*Prerequisites:* FA/THEA 3030 3.0 and permission of the department.

*Corequisites:* FA/THEA 3011 3.0 and FA/THEA 3021 3.0.

**FA/THEA 3050 3.0 Creative Ensemble III.** Building on the work of collaborative creation for the theatre explored in FA/THEA 2050 3.0 and FA/THEA 2051 3.0, this course will pursue more traditional approaches to scripted text, to provide a balance between devised theatre and playwright-based theatre, reflecting professional practices.

*Prerequisites:* FA/THEA 2050 3.0 and permission of the Theatre Department.

**FA/THEA 3051 3.0 Creative Ensemble IV.** A continuation and development of work undertaken in FA/THEA 3050 3.0.

*Prerequisites:* FA/THEA 3050 3.0 and permission of the Theatre Department.

**FA/THEA 3070 3.0 Performance Practicum I.** Intended for third-year students working in acting, the course will give an intensive opportunity to develop and improve skills in the creation of workshop productions.

*Prerequisites:* FA/THEA 2021 3.0 and permission of the department.

**FA/THEA 3071 3.0 Performance Practicum II.** Intended for third-year students working in acting, the course will give an intensive opportunity to develop and improve skills in the creation of workshop productions.

*Prerequisite:* FA/THEA 3070 3.0 or permission of the department.

**FA/THEA 3080 3.0 Physical Stage Techniques I.** Introductory training in special physical techniques for the actor, including tumbling and unarmed combat.

*Prerequisites:* FA/THEA 2031 3.0 and/or permission of the department.

**FA/THEA 3081 3.0 Physical Stage Techniques II.** Intensive application and further development of work begun in FA/THEA 3080 3.0.

*Prerequisites:* FA/THEA 3080 3.0 and permission of the department.

**FA/THEA 3100 3.0 Production Practicum.** Required of all third-year students working in production and design, the course gives students an opportunity to experience all aspects of creating a show (including stage management) from a production standpoint.

*Prerequisite:* FA/THEA 2100 3.0 or permission of the production area.

*Corequisite:* At least one other studio course in theatre production.

*Note:* Students may take FA/THEA 3100 3.0 or FA/THEA 3101 6.0, but not both concurrently.

**FA/THEA 3101 6.0 Production Practicum.** Required of all third-year students working in production and design, the course gives students an opportunity to experience all aspects of creating a show (including stage management) from a production standpoint.

*Prerequisite:* FA/THEA 2100 3.0 or permission of the production area.

*Corequisite:* At least one other studio course in theatre production.

*Note:* Students may take FA/THEA 3100 3.0 or FA/THEA 3101 6.0, but not both concurrently.

**FA/THEA 3120 3.0 Basic Costuming I.** Intensive application and further development of work begun in FA/THEA 2120 3.0. The course focuses on costume drafting and construction, and proper use of equipment and materials. Materials fee required.

*Prerequisite:* FA/THEA 2120 3.0 or permission of the course director.

*Corequisite:* FA/THEA 3142 3.0.

**FA/THEA 3121 3.0 Costume Design I.** Exploration of costume design theory and technique. Script analysis, character and historical research, and costume sketch development and presentation.

*Prerequisite:* FA/THEA 3120 3.0 and permission of the course director.

*Corequisite:* FA/THEA 3142 3.0.

**FA/THEA 3130 3.0/3130 6.0 Lighting Design I.** An introduction to the theory and practical application of theatrical lighting design. Students are expected to serve on lighting crews for departmental productions.

*Prerequisite:* FA/THEA 2130 3.0 or permission of the course director.

*Degree credit exclusion:* FA/THEA 3130 3.0.

**FA/THEA 3140 3.0 Stage Design I.** Theoretical and practical studies in the art and techniques of stage design. Material fee required.

*Prerequisites:* FA/THEA 2140 3.0, FA/THEA 2410 6.0 and permission of the course director.

*Corequisite:* FA/THEA 3142 3.0.

**FA/THEA 3141 3.0 Stage Design II.** Intensive application and further development of work begun in FA/THEA 3140 3.0. Material fee required.

*Prerequisites:* FA/THEA 3140 3.0 and permission of the course director.

*Corequisite:* FA/THEA 3142 3.0.

**FA/THEA 3142 3.0 Drawing for the Theatre I.** This studio course aims at giving the student the basic skills of drawing and the particular requirements of visual expression for theatre set and costume design.

*Corequisites:* FA/THEA 3120 3.0, FA/THEA 3121 3.0 and/or FA/THEA 3140 3.0, FA/THEA 3141 3.0.



**FA/THEA 3170 3.0 Make-up.** The fundamentals of stage make-up.

*Prerequisite: Permission of the department.*

**FA/THEA 3171 3.0 Materials of Production.** Principles and practice of producing stage properties and artifacts. Material fee required.

*Prerequisite: FA/THEA 2100 3.0 or permission of the instructor.*

**FA/THEA 3180 3.0 Stage Management.** A practicum in the art of stage management, consisting of lectures and seminars on theory, methodology and organization, focused through practical application of developed skills.

*Prerequisites: FA/THEA 2100 3.0 and permission of the course director.*

**FA/THEA 3200 6.0 Theatre Survey III.** This course examines developments in dramatic literature and theatre from World War II to the present. The course covers contemporary world and Canadian theatre in its varied forms. Required of all third-year Theatre majors. Open to majors and minors only.

*Prerequisite: FA/THEA 2200 6.0.*

*Note: Plus Prime Time sessions as assigned.*

**FA/THEA 3210 6.0 Seminar in Theatre Aesthetics and Criticism I.** From Aristotle to Jerzy Grotowski, this course offers a study of theatrical theory and practice, with special attention to applied theatrical criticism, both scholarly and journalistic. The course will include attendance at theatre events on- and off-campus.

*Prerequisite: FA/THEA 2210 3.0 or permission of the instructor.*

*Note: Open to third and fourth-year Theatre students.*

**FA/THEA 3260 1.5/3260 3.0/3260 6.0 Special Topics.** Seminar in dramatic literature or theatre history. Topics change yearly.

*Prerequisite: Permission of the course director.*

**FA/THEA 3290 6.0 Playwriting and New Play Dramaturgy I.** Through reading of student-written material, in-class discussion and dramaturgical input from students and the instructor, students work towards creation and development of theatrical work. Throughout the course, the instructor works with the playwrights and dramaturgs to forge individual methodologies of, respectively, play creation and play development specific to the needs of each student. The playwrights and dramaturgs work together on identifying and examining methodology, as well as on the development of new work.

*Prerequisites: Playwriting: submission of a portfolio and permission of the course director. Interview may be required. New Play Dramaturgy: submission of a portfolio and the permission of the course director. Interview is required.*

**FA/THEA 3450 6.0 Theatre for Young Audiences.** An introductory studio course in the theory and technique of theatre for young audiences. (Same as AK/THEA 3200 6.0.)

*Prerequisites: FA/THEA 1010 3.0 and FA/THEA 1200 6.0, or for students with experience in working with children and young people, permission of the course director.*

**FA/THEA 3480 3.0 Directing, Dramaturgy and the Creative Process I.** The process of directing is akin to the creative process, which is fluid and can follow any number of channels. This course is for artists who want to work in an intense collaborative environment, since it will address the personal as well as the collaborative process of creating in theatre. Students must possess a keen interest in either directing, writing, creative research and/or acting. Taught with FA/THEA 3050 3.0.

*Prerequisites: FA/THEA 2040 3.0 (formerly FA/THEA 2022A 3.0), FA/THEA 2410 6.0 and permission of the department.*

*Corequisites: FA/THEA 2060 3.0 and FA/THEA 3100 3.0.*

**FA/THEA 3481 3.0 Directing, Dramaturgy and the Creative Process II.** A continuation and deepening of the work undertaken in FA/THEA 3480 3.0. Taught with FA/THEA 3051 3.0.

*Prerequisites: FA/THEA 3480 3.0.*

**FA/THEA 4000 6.0 Production Practicum (Summer only).** An advanced practicum in production technique usually based on training and experience with a professional theatre.

*Prerequisite: By special arrangement with the production area. Open to Theatre majors only.*

**FA/THEA 4010 3.0 Voice V.** This senior level course in voice incorporates, focuses and adds to the skills developed in prior years training to shaping the character within the context of the play and the performance.

*Prerequisites: FA/THEA 3011 3.0 and permission of the department.*

*Corequisites: FA/THEA 4020 3.0 and FA/THEA 4030 3.0.*

**FA/THEA 4011 3.0 Voice VI.** Intensive application and further development of the work begun in FA/THEA 4010 3.0.

*Prerequisites: FA/THEA 4010 3.0 and permission of the department.*

*Corequisites: FA/THEA 4021 3.0 and FA/THEA 4031 3.0.*

**FA/THEA 4020 3.0 Acting V.** Advanced examination of acting techniques, approaches to scene study, characterization and style.

*Prerequisites: FA/THEA 3021 3.0 and permission of the department.*

*Corequisites: FA/THEA 4010 3.0 and FA/THEA 4030 3.0.*

**FA/THEA 4021 3.0 Acting VI.** Intensive application and further development of work begun in FA/THEA 4020 3.0.

*Prerequisites: FA/THEA 4020 3.0 and permission of the department.*

*Corequisites: FA/THEA 4011 3.0 and FA/THEA 4031 3.0.*

**FA/THEA 4030 3.0 Movement V.** This senior level movement course incorporates, focuses and adds to the skills developed in prior years training to shaping the character within the context of the play and the performance.

*Prerequisites: FA/THEA 3031 3.0 and permission of the department.*

*Corequisites: FA/THEA 4010 3.0 and FA/THEA 4020 3.0.*

**FA/THEA 4031 3.0 Movement VI.** Intensive application and further development of the work begun in FA/THEA 4030 3.0.

*Prerequisites: FA/THEA 4030 3.0 and permission of the department.*

*Corequisites: FA/THEA 4011 3.0 and FA/THEA 4021 3.0.*

**FA/THEA 4050 3.0 Creative Ensemble V.** Rehearsal and presentation of a theatrical workshop with focus on the ensemble as a creative force.

*Prerequisite: FA/THEA 3151 3.0.*

**FA/THEA 4050 3.0 Creative Ensemble VI.** Rehearsal and presentation of a technically supported original text with focus on the ensemble as a creative force.

*Prerequisite: FA/THEA 4050 3.0.*

**FA/THEA 4070 3.0 Performance Practicum III.** Intended for final-year students working in acting, the course gives students an intensive opportunity to develop and perfect advanced skills in the creation of a fully mounted show.

*Prerequisites: FA/THEA 3021 3.0 and permission of the department.*

**FA/THEA 4071 3.0 Performance Practicum IV.** Intended for final-year students working in acting, the course gives students an intensive opportunity to develop and perfect advanced skills in the creation of at least one fully mounted show.

*Prerequisite: FA/THEA 4070 3.0 or permission of the department.*

**FA/THEA 4100 3.0 Production Practicum.** Required of all fourth-year students working in production and design, the course gives advanced students an opportunity to further develop and perfect skills in the creation of a show. Labs include work on departmental productions.

*Prerequisite: FA/THEA 3100 3.0 or FA/THEA 3101 6.0.*

*Corequisite: At least one other fourth-year course in theatre production.*

*Note: Students may take FA/THEA 4100 3.0 or FA/THEA 4101 6.0 but not both concurrently.*

**FA/THEA 4101 6.0 Production Practicum.** Required of all fourth-year students working in production and design, the course gives advanced students an opportunity to further

develop and perfect skills in the creation of a show. Labs include work on departmental productions.

*Prerequisite:* FA/THEA 3101 6.0 or FA/THEA 3100 3.0.

*Corequisite:* At least one other fourth-year course in theatre production.

*Note:* Students may take FA/THEA 4100 3.0 or FA/THEA 4101 6.0 but not both concurrently.

**FA/THEA 4120 3.0 Costume Design II.** Intensive application and further development of costume design technique.

*Prerequisite:* FA/THEA 3121 3.0 or permission of the course director.

*Corequisite:* FA/THEA 4142 3.0.

**FA/THEA 4121 3.0 Advanced Costuming.** Intensive application and further development of work begun in FA/THEA 4120 3.0. Material fee required.

*Prerequisites:* FA/THEA 4120 3.0 and permission of the course director.

*Corequisite:* FA/THEA 4142 3.0.

**FA/THEA 4130 3.0 Lighting Design II.** Intensive application and further development of work begun in Lighting Design I.

*Prerequisite:* FA/THEA 3130 3.0 or FA/THEA 3130 6.0 and permission of the course director.

**FA/THEA 4140 3.0 Stage Design III.** Advanced work in applied stage design. Material fee required.

*Prerequisites:* FA/THEA 3141 3.0 and permission of the course director.

*Corequisite:* FA/THEA 4142 3.0.

**FA/THEA 4141 3.0 Stage Design IV.** Intensive application and further development of work begun in FA/THEA 4140 3.0. Material fee required.

*Prerequisites:* FA/THEA 4140 3.0 and permission of the course director.

*Corequisite:* FA/THEA 4142 3.0.

**FA/THEA 4142 3.0 Drawing for the Theatre II.** This studio course aims at giving the student skills of graphic expression for theatre set and costume design including colour media. Some concentration on design presentation approaches.

*Corequisites:* FA/THEA 4120 3.0, FA/THEA 4121 3.0 and/or FA/THEA 4140 3.0, FA/THEA 4141 3.0.

**FA/THEA 4150 3.0 Professional Aspects of the Theatre.** A grounding in a variety of financial, legal and contractual aspects of professional theatre in Canada, as well as the current structure and practice of theatre management.

*Note:* Required of all graduating Theatre majors who have not completed FA/THEA 2150 3.0 Introduction to Theatre Management.

**FA/THEA 4160 3.0 Theatre Technology.** An examination of the use of audio and other technologies.

*Prerequisites:* Permission of the course director.

**FA/THEA 4210 6.0 Seminar in Theatre Aesthetics and Criticism II.** A follow-up to FA/THEA 3210 6.0, the course focuses on major issues in theory and criticism and culminates in the publication of an issue of the York Theatre Journal.

*Prerequisite:* FA/THEA 3210 6.0 and/or permission of the course director.

**FA/THEA 4220 3.0/FA/THEA 4220 6.0 Non-European Theatre.** A study of ritual and theatre, including Indian, Chinese, Southeast Asian and Japanese theatres. Students may pursue interests in other non-European areas.

*Degree credit exclusion:* AK/THEA 3209B 3.0/3209B 6.0.

**FA/THEA 4270 1.5/4270 3.0/4270 6.0 Special Topics.** An advanced seminar in dramatic literature.

*Prerequisite:* Permission of the course director.

**FA/THEA 4290 6.0 Advanced Playwriting and New Play Dramaturgy II.** Emphasizing skills development, this process-oriented course builds on the discoveries achieved in Playwriting and New Play Dramaturgy I, and continues to explore the special requirements of new play dramaturgy and play development.

*Prerequisites:* For playwriting: FA/THEA 3290 6.0, submission of a portfolio and permission of the course director; interview may be required. For dramaturgy: submission of a portfolio, permission of the course director and interview.

**FA/THEA 4300 3.0/4300 6.0 Independent Study.** Open to highly motivated third and fourth year Theatre students who wish to pursue specific and intensive personal study in the Theatre Studies area under the supervision of a Theatre Studies area instructor.

*Note:* Open by petition to the department.

**FA/THEA 4301 3.0/4301 6.0 Independent Study.** Open to highly motivated third- and fourth-year Theatre students who wish to pursue specific and intensive personal study in the Acting or Production area under the supervision of the appropriate area instructor.

*Note:* Open by petition to the department.

**FA/THEA 4330 3.0/4330 6.0 Canadian Theatre.** An in-depth investigation of contemporary Canadian theatre, including a look at its historical roots.

*Prerequisite:* Third- or fourth-year standing. Others by permission of the course director.

**FA/THEA 4331 3.0/4331 6.0 Theatre for Social Change.** An exploration of the roles that theatre can play in bringing about social change.

*Prerequisite:* Third- or fourth-year standing. Others by permission of the course director.

**FA/THEA 4340 3.0/4340 6.0 Comedy.** An exploration of the comic spirit in the theatre, including not only a survey of comic drama from Aristophanes to Joe Orton, but also other theatrical expressions of the comic, such as stand-up comedy, mime, the art of the revue sketch and much more.

*Prerequisite:* Third- or fourth-year standing. Others by permission of the course director.

**FA/THEA 4350 3.0/4350 6.0 Tragedy.** An examination of tragedy as a dramatic form, including theories of tragedy and its changing manifestations from Aeschylus to the 20th century.

*Prerequisite:* Third- or fourth-year standing. Others by permission of the course director.

**FA/THEA 4360 3.0/4360 6.0 The Musical Theatre.** An exploration of the fusion of music and drama, focusing particularly on the popular musical theatre from its beginnings to the present.

*Prerequisite:* Third- or fourth-year standing. Others by permission of the course director.

*Degree credit exclusion:* AK/THEA 4450 3.0/4450 6.0.

**FA/THEA 4420 3.0 Creating a Solo Show.** This course is designed to present a method for discovering source material and bringing it to a theatrical form. The content discovered from the source work explorations will be brought to form based on the compositional principles traditionally used by dance choreographers and the self-scripting methods drawn from the work of Jerry Growtoski and Linda Putnam.

*Prerequisite:* Third- or fourth-year standing. Others by permission of the department.

**FA/THEA 4440 6.0 Drama and Education.** This course explores drama/theatre in an educational context. In addition to examining the major literature in drama in education over the past four decades, the class provides hands-on work in exploring the practical uses of drama in the classroom or in other educational environments, e.g. community-based.

*Cross-listed to:* AK/THEA 4500A 6.0.

**FA/THEA 4450 3.0/4450 6.0 Plays in Performance.** This course draws upon students' academic and practical theatre skills in concentrated production experiences with plays of different genres, styles or periods. Students can explore further their own special interests in acting, directing, design or technical work as part of an informal production company.

*Cross-listed to:* AK/THEA 4150 3.0 and AK/THEA 4150 6.0.

*Prerequisite:* Third- or fourth-year standing. Others by permission of the department.

**FA/THEA 4460 3.0/4460 6.0 Improvisation and Playmaking.** The principles and techniques of making your own play through improvisation and group work (collective creation), including the adaption of non-dramatic material for the stage.

*Cross-listed to: AK/THEA 4060 3.0 and AK/THEA 4060 6.0.*

*Prerequisite: Third- or fourth-year standing. Others by permission of the department.*

**FA/THEA 4480 6.0 Advanced Directing.** A continuation of the development of the director's craft with particular emphasis on dramatic form and style. The focus of the course is on individual work.

*Prerequisites: FA/THEA 2410 6.0, FA/THEA 3481 3.0 (or FA/THEA 3480 6.0) and permission of the department.*

*Corequisite: FA/THEA 4100 3.0.*

**FA/THEA 4800 6.0 Special Topics in Theatre Production.** This course is available to students who collectively wish to pursue a topic, production, or area of interest, which either integrates various aspects of production/technical theatre or which may be more appropriately studied under the umbrella of a professional producing organization. Available to fourth-year production students only, by application.

*Corequisites: FA/THEA 4101 6.0 and at least six further credits in production at the senior level.*

## Urban Studies – Arts

### Program Office:

301 Calumet College, 416-736-5057

### Coordinator of the Program:

J. Caulfield, Social Science

### Professors:

J.U. Marshall, Geography; B.H. Massam, Social Science/Geography; A.L. Murray, Social Science/Environmental Studies

### Associate Professors:

J. Caulfield, Social Science; G. Fallis, Economics/Social Science; E. Isin, Social Science; R.A. Murdie, Geography; G. Paasche, Sociology; L. Peake, Social Science/Environmental Studies; V. Preston, Geography

### Assistant Professors:

L. Code, Geography; M.J. Keall, Social Science; M. Stein, History; P. Wood, Geography

The Urban Studies program is an Honours Double Major Interdisciplinary BA program that enables students to combine concentration in a single discipline with an interdisciplinary perspective on the city and the urban region. Students who enrol in the program also coregister in another discipline such as Anthropology, Economics, Geography, History, Humanities, Political Science, Psychology, or Sociology. Students may also combine Urban Studies with the undergraduate program in the Faculty of Environmental Studies (FES), The School of Women Studies, or with one of the

following free standing interdisciplinary programs: Classical Studies, Creative Writing, East Asian Studies, Religious Studies.

The Urban Studies program is designed to provide a liberal undergraduate education about the nature and functioning of urban society. While it is comprehensive in its approach and range, it also aims to achieve depth in the examination of fundamental urban issues. It serves the needs of students who:

- i) want to gain a critical understanding of the city, out of intellectual interest alone or plan to pursue an advanced degree in a related discipline;
- ii) want to acquire a knowledge of the city, its problems and how it functions as a background for professional studies in law, business or public administration;
- iii) desire to build a sound urban-oriented geographical and socio-economic foundation for professional studies in urban planning or urban administration;
- iv) want a degree that exposes them to a broad range of disciplines and ideas focused on topics involving the urban region.

In keeping with the program's extensive scope and diverse aims, the curriculum is designed to encourage students to think broadly about people, processes and change while developing analytical and synthesizing skills. Courses blend in-class instruction with fieldwork and research practice. In-class sessions focus on bringing together the theoretical insights of several disciplines. Field work and research practice are carried out in one of the world's most complex and best equipped urban laboratories, the Metropolitan Toronto region.

### Required Core Courses:

AS/SOSC 2710 9.0 City Lives and City Forms: An Introduction to Urban Studies or AS/SOSC 2730 6.0 Culture of Cities.  
AS/SOSC 3700 6.0 Urban Analysis.  
AS/SOSC 4700 6.0 Urban Studies Seminar.

## Departmental and Divisional Courses in Urban Studies

*Note: For specific requirements of this program, please consult the Faculty of Arts "Programs of Study" section. For purposes of meeting program requirements all nine-credit Foundations courses will count as six credits towards the major.*

*Note: Students should consult appropriate Departmental calendars for up-to-date course descriptions, prerequisites and degree credit exclusions.*

AS/ANTH 3020 6.0 Race, Racism and Popular Culture.  
AS/ECON 3230 3.0 Urban Economics.  
AS/ECON 4279 3.0 Housing Economics.  
AS/EN 4150H 6.0 Special Topics: City Texts and Textual Cities.  
AS/GEOG 2300 6.0 Social Geography.  
AS/GEOG 3080 3.0 Reading Landscapes Through Time.  
AS/GEOG 3120 6.0 Urban Geography.

AS/GEOG 3770 3.0/AS/SOSC 3770 3.0 Housing Policy.

AS/GEOG 4040 6.0 Urban Historical Geography.  
AS/GEOG 4090 3.0 Urban Identities. (Cross-listed to: AS/HIST 4050E)

AS/GEOG 4110 3.0 Regional Urban Systems.  
AS/GEOG 4170 3.0 Geographic Perspectives on Immigration, Ethnicity and Race in Modern Cities.  
AS/GEOG 4220 3.0 Geographies of Industry.  
AS/GEOG 4240 3.0 The Planning of Urban Public Facilities.

AS/GEOG 4260 3.0 Applied Transportation Geography.

AS/GEOG 4380 3.0 Urban Social Policy.  
AS/HIST 4050E 3.0 Urban Identities: Historical Perspectives on Race, Ethnicity, Gender and Class in Canadian and American Cities. (Cross-listed to: AS/GEOG 4090 3.0)

AS/HIST 4530 6.0 The Development of Toronto.  
AS/HIST 4550 6.0 Ontario in the 20th Century.  
AS/POLS 3110 3.0 Process of Urban Politics I: Institutions and Power.

AS/POLS 3115 3.0 Process of Urban Politics II: Social Justice and Urban Ecology.  
AS/POLS 4650 3.0/GS/POLS5650 3.0 Provincial and Municipal Governments in Ontario.

AS/PSYC 3450 3.0 Environmental Psychology.  
AS/PSYC 4090 6.0 Urban Psychology.  
AS/SOSC 1731 9.0 Cybercities: Community and Communication in Changing Urban Areas.  
AS/SOSC 1740 9.0 Development of Urban Economies: Comparing Canada and the Third World.

AS/SOSC 2710 9.0 (Core Course) City Lives and City Forms: An Introduction to Urban Studies.  
AS/SOSC 2730 6.0 (Core Course) The Culture of Cities: Visual Journey Through Time and Space.  
AS/SOSC 3700 6.0 (Core Course) Urban Analysis.

AS/SOSC 3710 6.0 Theory and Practice of Urban Planning.

AS/SOSC 3720 6.0 Visual Images in Social Inquiry.

AS/SOSC 3740 3.0 Special Topics in Urban Studies.

AS/SOSC 3760 6.0 Toronto: Urban Growth and Community.

AS/SOSC 3770 3.0/AS/GEOG 3770 3.0 Housing Policy.

AS/SOSC 3790 3.0 Gender and the City  
AS/SOSC 4700 6.0 (Core Course) Urban Studies Seminar.

AS/SOSC 4710 6.0 Urban Field Experience.  
AS/SOSC 4990A 6.0 Contemporary Challenges for Urban Planning.

AS/SOCI 3420 6.0 Population and Society.  
AS/SOCI 3430 6.0 Ethnicity, Power and Identity.  
AS/SOCI 3830 6.0 Sociology of Urban Life.  
AS/SOCI 4430 3.0 Canada and Refugees.

## Optional Atkinson Courses in Urban Studies:

*Note: For a list of Atkinson courses which are degree credit exclusions, students should consult the degree credit exclusion/equivalent tables in the Lecture Schedule or the departmental/divisional supplemental calendars.*

*Note: Faculty of Arts Urban Studies majors may not take AK/URST 2410 6.0 for degree credit (Degree credit exclusions: AS/SOSC 2700 6.0, AS/SOSC 2710 6.0, AS/SOSC 2720 6.0)*

AK/ECON 3640 6.0 Urban Economics.  
 AK/GEOG 3400 6.0 Geographical Study of Populations.  
 AK/GEOG 3430 6.0 Urban Geography.  
 AK/GEOG 3510 6.0 Conservation and Urbanization.  
 AK/GEOG 4130 6.0/AK/URST 4130 6.0 Planned Communities.  
 AK/GEOG 4180 6.0/AK/URST 4180 6.0 Advanced Urban Geography.  
 AK/HIST 3100M 6.0/AK/URST 3490 6.0 The History of Toronto.  
 AK/URST 2420 6.0 Introduction to Planning Concepts and Methods.  
 AK/URST 3420 6.0 Recent Urban Development in Ontario.  
 AK/URST 3430 6.0 The Nature of Urban Population.  
 AK/URST 3440 6.0 Evolution of Urban Places.  
 AK/URST 3490 6.0/AK/HIST 3100M 6.0 The History of Toronto.  
 AK/URST 3500 3.0 Urban Residential Design.  
 AK/URST 3510 3.0 Canadian Housing Policy.  
 AK/URST 4130 6.0/AK/GEOG 4130 6.0 Planned Communities.  
 AK/URST 4180 6.0/AK/GEOG 4180 6.0 Advanced Urban Geography.  
 AK/VISA 4440C 3.0 The Rise and Fall of Modernism.

### Optional Faculty of Environmental Studies Courses in Urban Studies:

EN/ENVS 2200 3.0 Foundations of Human Settlements and Population.  
 EN/ENVS 3220 3.0 Urban Sustainability.  
 EN/ENVS 4161 3.0 New Social Movements.  
 EN/ENVS 4210 3.0 World Population Issues and Problems.  
 EN/ENVS 4220 3.0 Urbanization in Developing Countries.

### General Certificate in Urban Studies

All students in an Honours BA program have the opportunity to earn a certificate in Urban Studies if they complete 24 approved Urban Studies credits with a cumulative GPA of 5.0 (C+). Course requirements for the certificate are:

- AS/SOSC 2710 9.0 City Lives and City Forms: An Introduction to Urban Studies or AS/SOSC 2730 6.0 The Culture of Cities.
- 18 additional credits from among the courses recognized as satisfying the degree requirements in Urban Studies. At least six credits must be at the 4000-level. A course completed for major 1 (other discipline) and which is also an Urban Studies option cannot be counted for both requirements, i.e. students may choose to use this course toward any one discipline only.
- An advising appointment with an Urban Studies faculty member teaching in one of the core courses.

## Vanier College – Arts

### Academic Program Office:

238 Vanier, 416-736-5191

### College Master:

Helen Doan

### Academic Adviser:

Stanley Tweyman

*Note: Not all courses will necessarily be offered in any given year; for details of courses to be offered, consult the supplementary calendar, available in the academic program office.*

### 1000-Level Courses

Listed below are the 1000-level and 2000-level nine-credit Foundations courses which are part of the Faculty of Arts General Education requirement. These courses introduce students to interdisciplinary study and emphasize critical thinking, reading and writing skills at the university level and reflect the academic mandate of the college.

Students enrolling in Vanier College Foundations courses, in either the Division of Humanities or the Division of Social Sciences, will be members of Vanier College with access to academic advising, orientation programs, social and cocurricular events.

### AS/HUMA 1100 9.0 Worlds of Greece and Rome.

A study of the classical world with a view to understanding the origin and evolution of some of the literary, philosophical and political ideals of ancient Greece and Rome. Materials for this study will be drawn from Greek and Roman literature in translation, with illustration from the plastic arts.

*Degree credit exclusion: AS/HUMA 1100 6.0.*

### AS/HUMA 1110 9.0 Greek and Biblical Tradition.

The stories, symbols and myths of Greek and Biblical literature have provided the basic images for Western society's interpretation of itself and its experience. An examination of Greek and Biblical traditions which inform personal and community life today.

*Degree credit exclusion: AS/SOSC 1110 6.0.*

### AS/HUMA 1120 9.0 Medieval Civilization.

An investigation of the culture of medieval western Europe, tracing its values, aesthetics and habits of perception. Plastic arts and architecture, epic, romantic and lyric prose and poetry, theology and historical documents illustrate forms of thought and expression.

*Degree credit exclusion: AS/HUMA 1120 6.0.*

**AS/HUMA 1130 9.0 The Renaissance.** This course explores the European Renaissance as a form of civilization. It treats literature, music, philosophy, religion, political theory and the plastic arts, and seeks to make clear the ideas, values and habits of mind which gave unity to an epoch in Western history.

*Degree credit exclusion: AS/HUMA 1130 6.0.*

**AS/HUMA 1160 9.0 The Enlightenment and Human Understanding.** A fundamental feature of the Enlightenment is the view that human experience is the foundation of gaining knowledge and truth. We focus on selected Enlightenment writers and thinkers in order to understand this approach to writing.

### AS/HUMA 1170 9.0 The Modern Age: Shapers and Definers.

The course introduces the student to some of the important shapers and definers of the Modern (Western) artistic and intellectual tradition, along with some of the movements and counter-movements that framed their work (Romanticism, Realism, Symbolism, Modernism etc.).

*Degree credit exclusion: AS/HUMA 1170 6.0.*

### AS/HUMA 1610 9.0 The Art of Writing.

A course on the nature and evolution of European, British and American writing through the modern period.

*Degree credit exclusion: AS/HUMA 1610 6.0.*

### AS/HUMA 1840 9.0 Truth, Order and Meaning.

Major works of literature, philosophy, religion and science since the Renaissance are read and discussed in a search for the distinctively human.

*Degree credit exclusion: AS/HUMA 1840 6.0.*

### AS/HUMA 1915 9.0 Animals and the Imagination.

From antiquity to the present, the animal world has been strongly reflected in Western literature. The course presents a cross-cultural examination of the depiction of animals in Western literature and culture (especially the English, North American, German and Russian traditions).

*Degree credit exclusion: AS/HUMA 1500C 6.0.*

### AS/HUMA 2110 9.0 Egypt in the Greek and Roman Mediterranean.

An examination of Egypt and Egyptians in the imagination and History of the cultures of the Greek and Roman Mediterranean.

### AS/HUMA 2800 9.0 Introduction to the Study of Religion.

This course places the classic expressions of religion in their social and cultural contexts. It employs different humanistic and social science disciplinary tools and deals with important methodological questions in the study of religion.

*Degree credit exclusions: AS/HUMA 2800 6.0, AS/SOSC 2600 6.0.*

*Cross-listed to: AS/SOSC 2600 9.0.*

### AS/HUMA 2815 9.0 Islamic Traditions.

The course examines the beliefs, rituals, doctrines and teachings that have constituted the Islamic tradition from its inception until the present.

### AS/HUMA 2830 9.0 The Founders of Christianity.

An introduction to the literature and history of the early Christian communities in Palestine, Syria, Asia Minor, Greece and Rome. The varieties of early Christian thought and practice are examined in terms of their religious, cultural and political contexts.

*Degree credit exclusion: AS/HUMA 2830 6.0.*

**AS/HUMA 2850 9.0 The Jewish Experience: Symbiosis and Rejection.** Jewish-Gentile relationships through the ages as an exercise in acculturation. The course will consider Hellenistic, medieval and modern periods, with special emphasis on modern Europe and Israel.

*Degree credit exclusions: AS/HUMA 2850 6.0, AS/HUMA 2851 3.0, AS/HUMA 2852 3.0.*

**AS/HUMA 2900 9.0 Introduction to Creative Writing.** This course is an introduction to the writing of poetry and prose fiction. The main focus of the course will be the student's own writing. Students will be expected to satisfy a number of assignments relating to both fiction and poetry.

*Degree credit exclusion: AS/EN 2900 6.0.*

**AS/SOSC 1910 9.0 Education and Social Change.** This course examines the development of educational systems against the background of a changing social structure. The question of "education for what" is stressed in understanding historical and contemporary school systems. The course emphasizes the Canadian educational experience.

*Degree credit exclusions: AS/SOSC 1910 6.0, AS/SOSC 1919 9.0.*

**AS/SOSC 2600 9.0 Introduction to the Study of Religion.** Please see AS/HUMA 2600 6.0 for course description.

*Degree credit exclusions: AS/HUMA 2800 6.0, AS/SOSC 2600 6.0.*

*Cross-listed to: AS/HUMA 2800 9.0.*

**AS/SOSC 2830 9.0 Music and Society.** This course explores the relationship between the production and performance of music and its economic, social and political milieu. The first part of the course centres on the special theoretical perspective of the social sciences and the understanding it gives of the structure and content of music. The second part focuses on music in the modern world.

*Degree credit exclusion: AS/SOSC 2830 6.0.*

## Visual Arts – Fine Arts

### Department Office:

232 Centre for Fine Arts, 416-736-5187

### Chair of the Department:

C. Zemel

### University Professor:

J. Zemans

### Professors:

T. Bieler, G.P.R. Métraux, M. Thurlby,

A. Tomcik, T. Whiten, C. Zemel

### Professor Emeritus:

V. Frenkel

### Associate Professors:

J. Baturin, C. Breeze, S.A. Brown,

K. Carpenter, J. Cohnstaedt, M. Davey,

B. Dodge, B. Grosskurth, J. Jones,

H. LeRoy, N. Nicol, B. Parsons, R. Perry,

J. Schwarz, K. Stanworth, P. Tenhaaf

### Associate Professor Emeritus:

G. Needham

### Assistant Professors:

B. McGill Balfour, K. Knight, Y. Singer

## Programs of Study

The programs of study in the Department of Visual Arts are based on a creative interaction among the historical, practical and critical/theoretical approaches to the visual arts that is possible only within a modern university. The department educates students within a humanistic context and provides a strong foundation for those who wish to pursue further study and professional involvement in the visual arts. It offers programs leading to a BA, BA Honours or BFA Honours degree. In addition to courses in Visual Arts, students are also required to take courses within the humanities, social sciences and natural sciences to complement and reinforce their studies. As a result, the Department of Visual Arts reserves the right to restrict students to 18 credits in Visual Arts in any given year. Of these 18 credits, only 12 credits will be allowed in the studio area of the department in any given year.

Honours minors in Visual Arts (Art History) and Visual Arts (Studio) are also available.

### Studio Art

Practicum courses have been designed to develop creative thinking and also to accommodate diverse backgrounds, abilities and interests. Students concentrating in studio may work in drawing, painting, sculpture, printmaking, photography, or new media.

Studio students are recommended to:

a) take FA/VISA 2620 6.0 Modern Art: 1750 to the Present during the course of their studies;

b) successfully complete no fewer than 12 credits in two-dimensional and six credits in three-dimensional studio art.

*Note: Course numbers whose second digit is "0" normally represent studio work.*

### Art History

Courses in art history are designed primarily for students whose major interest is the history of art or whose Honours program includes the history of art as one of its elements, and for other students majoring in the fine arts. Enrolment for students in other disciplines who wish to take any of these courses as electives may be accepted either with the stated prerequisites or with the approval of the instructor.

Students intending to continue their studies beyond the undergraduate level in art history are advised that most graduate schools require reading facility in modern languages. Students concentrating in this area are urged to include in their course of study at least one foreign language at the earliest possible time.

Some courses may use a title variance to indicate different course content within the same area of study. Courses may be organized in a geographical, chronological or thematic basis. Students should check with the

department for more detailed course descriptions in any given year.

## Visual Arts Practicum Courses

*Note: Not all courses listed are necessarily offered every year.*

**FA/VISA 1006 6.0 The Photographic Experience.** An introduction to photography and related practices for non-majors. Students develop basic skills through lectures and discussions and through scheduled group critiques of their own work. Photographic materials are processed commercially. Aspects of history and theory are explored.

*Degree credit exclusions: Not open to students who have completed FA/VISA 2060 6.0 (formerly FA/VISA 1060 6.0) or AK/VISA 2360 6.0. Not open to Visual Arts majors.*

### FA/VISA 2000 3.0 Special Options: Practicum.

In any given year, one or more courses involving non-traditional or traditional approaches or techniques in the making of art may be offered. Topics vary from year to year. A materials fee may be required.

**FA/VISA 2021 3.0 Painting.** Aesthetics and techniques are examined through the study of various traditions and approaches in painting. Visual vocabulary and formal composition are developed through practical application and critical appraisal. Contemporary art concerns are discussed in slide presentations.

*Note: Also available to non-majors.*

**FA/VISA 2022 3.0 Painting.** Subject matter and its attendant meaning are addressed through the application of direct and indirect methods of painting. This is achieved through diverse sources of imagery, including photography. The development of 20th-century painting is examined in slide presentations.

*Note: Also available to non-majors.*

**FA/VISA 2031 3.0 Sculpture.** Formal principles are developed in conjunction with personal concepts employing both additive and subtractive processes to make the finished sculpture. Techniques include modelling in clay and plaster and carving in wood and stone. The history of sculpture is examined in slide talks. Compulsory and optional materials fee and damage deposit apply. Mandatory safety equipment required.

*Note: Also available to non-majors.*

**FA/VISA 2032 3.0 Three-Dimensional Construction.** Projects focus on the three-dimensional construction process using materials such as plaster/clay, wood, steel and found objects. The theory and practice of 20th-century constructed sculpture is also examined through discussions and slide presentations. Compulsory and optional materials fees and damage deposit apply. Mandatory safety equipment required.

*Note: Materials may vary depending on the instructor.*

**FA/VISA 2033 3.0 Clay Modelling and Plaster Casting.** Through a combination of slide lectures and studio practice, students are introduced to the historical tradition and the contemporary theory and practice of clay modelling over an armature and the transformation of the modelled object into a plaster casting through the waste mould process. Compulsory and optional materials fees and damage deposit apply. Mandatory safety equipment required.

*Note: Also available to non-majors.*

**FA/VISA 2034 3.0 Stone Carving.** Understanding of form is developed by combining primary sculptural method and traditional material. Investigations using stone identify principles of glyptic method and idea through dialogue, slide discussions and readings, resulting in visible signs of process and materialization of completed work. Compulsory supplementary fees. Mandatory safety equipment is required.

*Degree credit exclusion: FA/VISA 2000A 3.0.*

*Note: Also available to non-majors.*

**FA/VISA 2035 3.0 Fundamentals of Sculpture.** Familiarity with three-dimensional form and methods of production are required for sculptural expression. This course acquaints students with the fundamentals of sculpture, including constructive methods in wood and metal, clay modeling and replication using gypsum products. Compulsory supplementary fees. Mandatory safety equipment is required.

*Degree credit exclusion: FA/VISA 2000B 3.0*

*Note: Also available to non-majors.*

**FA/VISA 2053 3.0 Crossing Boundaries.** An introduction to interdisciplinary studio practice. Performance art, image and text and video art are examined in relation to mass media, ideology, identity and social concerns. Studio projects encourage individual creative exploration while emphasizing a grounding in visual language, narrative structures and semiotics. Technical workshops include an introduction to Adobe Photoshop. Compulsory materials fee applies.

*Note: Also available to non-majors.*

**FA/VISA 2054 3.0 Introduction to Electronic Media.** Video, audio and the computer are introduced as media for artmaking. Conceptual approaches to working with electronic media are explored by students through hands-on technical workshops, individual and group projects, and theoretical and technical readings.

*Degree credit exclusion: FA/VISA 2052 3.0.*

*Note: Also available to non-majors.*

**FA/VISA 2055 3.0 Time-based Art.** Individual and group projects plus readings are focused on time-based media such as video, audio, film and performance. Students develop art works using combinations of these media to explore relations between image (still or moving), sound and action. Use of digital media is encouraged but not required. Compulsory supplementary fees apply.

*Degree credit exclusion: FA/VISA 2051 3.0.*

*Note: Also available to non-majors.*

**FA/VISA 2060 6.0 Introductory Photography (Black and White).** This course is an introduction to photographic techniques and aesthetics. It provides the basis for the development of critical awareness and encourages students to develop their own aesthetic vocabulary. Technical competence, innovation and quality are stressed. Working intensively with the black-and-white darkroom, the small format camera and standard black-and-white films, students work towards an understanding of both traditional and non-traditional approaches. Compulsory supplementary fees apply. A 35mm, APS, or twin-lens reflex camera with light meter and safety equipment are required.

*Degree credit exclusions: FA/VISA 1060 6.0, FA/VISA 2061 3.0, FA/VISA 2062 3.0, FA/VISA 2064 6.0 and AK/VISA 2360 6.0.*

*Note: Also available to non-majors.*

**FA/VISA 2061 3.0 Photography.** The use of photographic equipment is introduced in conjunction with historic and contemporary techniques in shooting and processing. Emphasis is on the functions of the camera and the process of fine art printing. Critiques and discussions inform student production. Compulsory materials fee applies. 35mm camera and mandatory safety equipment required.

*Corequisite: FA/VISA 2062 3.0.*

*Degree credit exclusions: FA/VISA 1060 6.0, AK/VISA 2360 6.0.*

*Note: Also available to non-majors.*

**FA/VISA 2062 3.0 Photography.** The use of photographic equipment is introduced in conjunction with historic and contemporary techniques in shooting and processing. Emphasis is on the craft of shooting, processing and printing and includes matting and mounting, toning and handcolouring. Individual and group critiques develop alternative approaches to the media. Compulsory materials fee applies. 35mm camera and mandatory safety equipment required.

*Prerequisite: FA/VISA 2061 3.0 or permission of the instructor.*

*Degree credit exclusions: FA/VISA 1060 6.0, AK/VISA 2360 6.0.*

*Note: Also available to non-majors.*

**FA/VISA 2064 6.0 Introductory Photography (Colour).** An introduction to photo-based practices using the small format camera and the colour darkroom. The course stresses technical, aesthetic and historical knowledge while encouraging students to develop their own aesthetic vocabulary. Either a 35mm, APS, or twin-lens reflex camera with light meter is required. Photography courses require independent research and thought. Compulsory materials fees and safety equipment are required.

*Degree credit exclusions: FA/VISA 2060 6.0 (formerly FA/VISA 1060 6.0), FA/VISA 2061 3.0, FA/VISA 2062 3.0 and AK/VISA 2060 6.0.*

**FA/VISA 2070 3.0 Printmaking: Lithography.** In this introduction to lithography, students are exposed to the ideas and aesthetics informing contemporary print media. Demonstrations and projects cover various approaches to this medium, including drawing, transfer and photographic or digital methods. An understanding of the material and conceptual possibilities of lithography will allow students to develop individual print practices. Compulsory materials fee. Mandatory safety equipment is required.

*Note: Also available to non-majors.*

**FA/VISA 2071 3.0 Printmaking: Intaglio.**

Participants will receive a grounding in the ideas and aesthetics which inform contemporary print media in addition to an understanding of a range of print methodologies. These may include monoprint techniques, relief processes and basic etching or screen printing. The purpose is to expand creative potentials by overcoming aesthetic, technological and conceptual hurdles. Compulsory materials fees apply. Mandatory safety equipment required.

*Note: Also available to non-majors.*

**FA/VISA 2072 3.0 Printmaking: Screenprinting and Relief.**

In this introduction to screenprinting and relief, students are exposed to ideas and aesthetics informing contemporary print media. Demonstrations and projects will cover various approaches to these print forms, each with a range of techniques and material processes. Compulsory supplementary fees. Mandatory safety equipment is required.

*Note: Also available to non-majors.*

**FA/VISA 2081 3.0 Drawing.** Formal drawing concerns, emphasizing perception, proportion and structure, are examined in relation to a variety of subject matter, including the figure. Various techniques and materials are used. Creative processes are developed through historical, aesthetic and psychological issues.

*Note: Also available to non-majors.*

**FA/VISA 2082 3.0 Drawing.** An emphasis is placed on the development of imagery from a number of sources. Various materials and techniques are used. Critiques and discussions inform personal growth.

*Note: Also available to non-majors.*

**FA/VISA 3000 3.0/3000 6.0 Special Options: Practicum.**

In any given year, one or more courses involving non-traditional or traditional approaches or techniques in the making of art may be offered by the studio area of the department. Topics vary from year to year. Materials fee may be required.

*Prerequisite: Third- or fourth-year standing and permission of the course director.*

**FA/VISA 3010 6.0 Feminisms: Women, Art and Culture.**

Studio practice combined with lectures and seminars to address the relationship of women to art specifically and to culture and society generally. Contemporary debate on issues such as race, class and

gender is examined in relation to artistic theory and practice. Students are encouraged to develop individual and collaborative works in a variety of media, including photography, text, painting, performance, video and film. Technical workshops and guidance are incorporated into the course as required. Optional materials fees apply.

*Prerequisite: Successful completion of foundation studies or permission of the instructor.*

**FA/VISA 3020 6.0 Painting.** A studio course emphasizing various modern concepts in painting. Problems presented are designed to be as flexible as possible, challenging the student's creative expression. Individual work space is assigned to each student; therefore enrolment is limited.

*Note: Students are expected to work on their own outside scheduled class time.*

*Prerequisite: Successful completion of foundation studies including six credits in painting at the 2000-level with an average grade of B or better, or permission of the instructor.*

**FA/VISA 3021 6.0 Mural Painting (Site Specific Public Art).** Studio painting projects explore the nature of public art. Lectures examine works from Mexico, Europe and North America to gain greater social and aesthetic understanding of contemporary mural art. Students work towards a large scale project.

*Prerequisites: Third- or fourth-year standing, FA/VISA 2021 3.0 and 2022 3.0 with C+ or better.*

*Degree credit exclusion: FA/VISA 3000E 3.0.*

**FA/VISA 3023 6.0 Computer Imaging for Artists.** Conceptualization, planning and manipulation of images on the computer as they pertain to contemporary art practices including drawing, painting and printmaking. Investigation of the creative advantages and disadvantages inherent in the operation language of the computer. Explorations are intended for application to traditional and non-traditional surfaces.

*Prerequisite: Successful completion of foundation studies with an average grade of C+ or better or permission of the course director.*

**FA/VISA 3030 6.0 Sculpture.** This course permits the student to progress from a general understanding of sculptural concepts and media to more complex sculptural problems. Compulsory materials fees apply. Mandatory safety equipment required.

*Prerequisite: Successful completion of foundation studies including six credits in sculpture at the 2000-level with a grade of C+ or better in each course, or permission of the instructor.*

**FA/VISA 3031 6.0 Foundry.** An introduction to the use of foundry processes in the creation of sculpture. Lost wax casting and sand casting in bronze and aluminum are introduced with the purpose of exploring the creative potential inherent in these techniques when

they are applied by the student to their work directly. Compulsory materials fees apply. Mandatory safety equipment required.

*Prerequisite: Six credits in sculpture at the 2000 level with an average grade of C+ or better, or permission of the course director.*

*Degree credit exclusion: FA/VISA 3000A 6.0.*

**FA/VISA 3050 6.0 Interdisciplinary Studio.**

The emphasis in the course is on the shaping of concepts and how to manifest them through art. Students are asked to become aware of cultural assumptions and preconceived ideas and to develop beyond their present preconceptions. New ends may also be sought through known processes — film, video, performance, creative writing etc. — as well as through unfamiliar processes of the students' own devising, presented seminar-fashion. Optional damage deposit applies.

*Prerequisite: Successful completion of foundation studies, including six credits in new media with an average grade of C+ or better, or permission of the instructor.*

**FA/VISA 3051 6.0 Time Based Explorations.**

Continued exploration of interrelations among moving image, sound and performance in art making. Interactive multimedia programs are introduced as an element that can be incorporated into students' work. Use of digital media is encouraged but not required. Compulsory supplementary fees apply.

*Prerequisite: Successful completion of foundation studies, including FA/VISA 2054 3.0 or FA/VISA 2055 3.0 (or FA/VISA 2051 3.0 or FA/VISA 2052 3.0) with a grade of C+ or better, or permission of the instructor.*

**FA/VISA 3052 6.0 Video Art.**

A range of video art practices including video installation, media performance art, narrative structures and new challenges in documentary are examined. Technical workshops are given in combination with seminars and discussion exploring the history of video art, creative concepts and theory. Practical experience is gained in production planning and techniques, editing in digital or tape formats. Students are introduced to a range of themes explored by contemporary video artists which critique cultural assumptions including race, racism and representation; gender and the body; queer identity; ideology and popular culture. A \$30 materials fee is required.

*Prerequisite: Successful completion of foundation studies, including six credits in new media with an average grade of C+ or better, or permission of the instructor.*

**FA/VISA 3060 6.0 Photography (Silver).**

Advanced photography dealing with the fine print. Compulsory materials fees and damage deposit apply. Mandatory safety equipment required.

*Prerequisite: Successful completion of foundation studies, including FA/VISA 2060 6.0 (formerly FA/VISA 1060 6.0), or FA/VISA*

*2061 3.0 and FA/VISA 2062 3.0, or FA/VISA 2064 6.0, with an average grade of C+ or better, or permission of the course director.*

**FA/VISA 3061 6.0 Historical Processes of Photography.**

A course employing historical processes to make photographic images. Compulsory materials fees and damage deposit apply. Mandatory safety equipment required.

*Prerequisite: Successful completion of foundation studies, including FA/VISA 2060 6.0 (formerly FA/VISA 1060 6.0), or FA/VISA 2061 3.0 and FA/VISA 2062 3.0, with an average grade of C+ or better, or permission of the instructor.*

**FA/VISA 3063 6.0 Photographic Explorations.**

This course will investigate mixed method photo-based practices. It addresses the necessary interplay of creative problem solving, conceptual thought, social and political theory, and the evolution of electronic and digital technologies in contemporary art practice.

*Prerequisite: FA/VISA 2060 6.0 (formerly FA/VISA 1060 6.0), or FA/VISA 2061 3.0 and FA/VISA 2062 3.0, or FA/VISA 2064 3.0, with an average grade of C+ or better, or permission of the course director.*

**FA/VISA 3064 6.0 Colour Photography.**

An intermediate level course dedicated to contemporary fine art photographic practices. The course combines technical and historical knowledge with aesthetics, creative problem solving and conceptualization and encourages students to refine their aesthetic vocabulary. A 35mm, APS, or twin-lens reflex camera with a light meter is required. Compulsory materials fees apply. Mandatory safety equipment is required.

*Prerequisite: FA/VISA 2060 6.0 (formerly FA/VISA 1060 6.0), or FA/VISA 2064 6.0, or FA/VISA 2061 3.0 and FA/VISA 2062 3.0, or permission of the course director.*

**FA/VISA 3065 6.0 Photo-Illustration.**

An intensive project-based course that addresses the relationship between photography and applied design (editorial, fashion, advertising). Assignments will focus on creative and practical photographic solutions to specific design challenges in the publication field.

*Prerequisites: FA/VISA 2060 6.0 (formerly FA/VISA 1060 6.0), or FA/VISA 2064 6.0, or FA/VISA 2061 3.0 and FA/VISA 2062 3.0, or permission of the course director.*

**FA/VISA 3070 6.0 Extended Print Practice.**

Building upon knowledge gained from introductory printmaking courses, students will have the opportunity to work in various print media as well as investigate extended print media practice such as artists' book, printed ephemera, print installation and digital imaging. Compulsory supplementary fees. Mandatory safety equipment is required.

*Prerequisites: Six credits from the FA/VISA 207-series of courses with a grade of C+ or better in each, or permission of the course director.*

**FA/VISA 3073 6.0 Print Explorations.**

Students will explore traditional and alternative print forms, drawing upon previous experience and working toward an expansion of possibilities



in print. the incorporation of digital media into the students research and artmaking will be an integral part of this course. Compulsory material fees.

*Prerequisite: Six credits from the FA/VISA 207-series of courses with a grade of C+ or better in each, or permission of the course director.*

**FA/VISA 3080 6.0 Drawing.** The object of this course is to give order to the acts of seeing and thinking. The student is required to select information from the phenomenal world so as to become capable of differentiating between the perceived and the known.

*Prerequisite: Successful completion of foundation studies, including FA/VISA 2081 3.0 and FA/VISA 2082 3.0 with an average grade of C+ or better, or permission of the instructor.*

**FA/VISA 3081 6.0 Investigative Methods, Resource Development and Notation.** An examination and elucidation of the concerns of form as they relate to studio practice in drawing so as to provide a grounding in the understanding, use and exercise of basic systems of visual research and concept development.

*Prerequisite: Successful completion of foundation studies, including FA/VISA 2081 3.0 and FA/VISA 2082 3.0 with an average grade of C+ or higher, or permission of the course director.*

*Degree credit exclusion: FA/VISA 3000C 6.0.*

**FA/VISA 3110 6.0 Historical Techniques and Materials of the Artists.** An intensive study of the media and the methods employed by artists throughout history. There are four units of study in the course: drawing, printmaking, painting and sculpture, which are examined in a series of lectures, studio, experimentation, demonstrations and gallery visits. Compulsory materials fee applies.

*Note: It is strongly recommended that students have taken at least six credits in studio and 12 credits in art history before enrolling in this course*

**FA/VISA 4000 3.0/4000 6.0 Special Options: Practicum.** In any given year, one or more courses involving non-traditional or traditional approaches or techniques in the making of art may be offered by the studio area of the department. Information on specific offerings will be available from the department each year. A materials fee may be required.

*Prerequisite: Third- or fourth-year standing and permission of the course director.*

**FA/VISA 4020 6.0 Painting.** An advanced studio seminar, with emphasis on a self-directed program in which students begin to formulate their own objectives. Individual work space is assigned to each student; therefore enrolment is limited. Six hours.

*Note: Students are expected to work on their own outside scheduled class time.*

*Prerequisite: FA/VISA 3020 6.0 with a grade of B or better, or permission of the instructor.*

**FA/VISA 4030 6.0 Sculpture.** Advanced personal year-long projects in sculptural media. Compulsory and optional materials fees apply.

*Prerequisite: FA/VISA 3030 6.0 with a grade of C+ or better, or permission of the instructor.*

**FA/VISA 4050 6.0 Interdisciplinary Studio.**

An advanced studio seminar involved with the shaping of individual concepts through experimental work in film, video, performance and publications. Through independent work, students develop a heightened consciousness of their work and its implications. The evolution and final form of the work depends on the bringing into form of the individual's idea. Optional materials fees apply.

*Prerequisite: FA/VISA 3050 6.0 with a grade of C+ or better, or permission of the instructor.*

**FA/VISA 4060 6.0 Photography.** Further development of advanced photography, dealing with the fine print, or historical processes. Compulsory materials fees apply. Mandatory safety equipment required.

*Prerequisite: FA/VISA 3060 6.0 or FA/VISA 3061 6.0 with a grade of C+ or better, or permission of the instructor.*

**FA/VISA 4070 6.0 Printmaking.** This course allows students to further refine skills and develop a greater understanding of the options available in contemporary practices including cross-over methodologies and areas such as digital technologies. It is a course about ideas as much as it is a course about methods or practices. Progression through the course is on a contract basis. Contracts are points of departure to be expanded upon. They are not limitations to creative potentials or to aesthetic and philosophic evolutions. Compulsory materials fees apply. Mandatory safety equipment required.

*Prerequisite: FA/VISA 3070 6.0 with a grade of C+ or better, or permission of the instructor.*

**FA/VISA 4080 6.0 Drawing.** The focus of this course is intention. Emphasis is given to notation and its subsequent understanding. The aesthetic experience is examined as it relates to the creative process. The bias of the course is the intelligent development of intention as it imparts information and provides the transcendental experience.

*Prerequisite: FA/VISA 3080 6.0 with a grade of C+ or better, or permission of the instructor.*

**FA/VISA 4090 6.0 Advanced Studio Practice.**

A study program for highly motivated students in a studio discipline. Individualized studio research is conducted within a context of selected seminars, guest speakers, gallery tours, peer exchange and regular individual meetings with a faculty member. In any given year, one or more themes provide a focus for intensive study. Topics may vary from year to year and have included: Installation Art, Art Concrete and the Social Reality of Change, Image: Methods and Applications, Structure and Contingency, Advanced Explorations, The Plural Hand, Giving Voice, Art and Resistance. Supplemental fees are charged in studio areas where such fees are normally applied.

*Prerequisite: Third- or fourth-year standing and completion of at least six credits in studio at the 3000-level with a grade of B or better.*

**FA/VISA 4091 3.0/4091 6.0 Independent Studies: Studio Art.**

An individualized study program for highly motivated students in their final year of study who wish to pursue specific and intensive independent projects under the supervision of a faculty member on topics not available in other courses in the department. No more than one independent study course may be taken in any given year. Supplementary fees are charged in studio areas where such fees are applicable.

*Prerequisite: A 4000-level studio practicum in the media area being proposed, an overall major average of B+ and permission of the department.*

*Note: Applications are available in the spring for the following academic session. Applications must include written support of the faculty supervisor prior to submission to the department for approval.*

## Visual Arts Studies Courses

**FA/VISA 1000 3.0 Critical Issues in the Studio.**

This course introduces students to visual, conceptual and theoretical language as it relates to studio practice. Ideas are examined through various disciplines from different points of view. Core course for first-year foundation studies in Visual Arts.

*Note: Also available to non-majors.*

**FA/VISA 1110 6.0 Introduction to Western Art.**

Fundamentals of western art history, visual analysis and selected cultural and philosophical themes in the development of human expression in the arts. The emphasis is on the chronological and thematic development of western European and some North American art with a view to assessing and understanding the history of artistic creativity and its many manifestations.

*Prerequisite: None.*

**FA/VISA 1340 6.0 The Art of Asia.** A survey of the art of India, China and Japan, with special emphasis on the informing religious traditions.

*Prerequisite: None.*

**FA/VISA 2110 6.0 Introduction to the History of Western Architecture.**

A chronological study of the theory, practice and development of architecture from ancient Greece to the 20th century, based on the detailed examination of individual buildings.

*Prerequisite: None.*

**FA/VISA 2520 3.0 Greek Art and Architecture.**

A study of the art of Greece in all media (vase painting, sculpture, architecture) from its origins in Aegean times through the Hellenistic period. Works of art are set in their philosophic, literary and dramatic context and their social and economic background are considered. Extensive use of Toronto-area museum collections is included.

*Prerequisite: FA/VISA 1110 6.0 or permission of the course director.*

**FA/VISA 2530 3.0 Roman Art and Architecture.** A survey of the art of the Roman Republic and Empire from its origins in Etruscan times through Constantine. Works of art are set in their context of Latin literature, both poetry and rhetoric; and the social and economic development of the Republic and Empire are studied as a parallel manifestation. Extensive use of Toronto-area museum collections is included.

*Prerequisite: FA/VISA 1110 6.0 or permission of the course director.*

**FA/VISA 2540 6.0 Medieval Art.** A survey of the arts of architecture, sculpture, painting and the so-called minor arts from early Christian times to ca. A.D. 1400.

*Prerequisite: None.*

**FA/VISA 2550 6.0 Introduction to Medieval Architecture.** A selective study of major medieval churches, circa 313-1500, in a cultural and technological context. Each building is examined in light of the demands of the patrons, and the practical design and technological skills of the master masons and artists. The aims are to understand why and how each edifice was created and what it meant to society, and to equip students with the archaeological skills necessary to read medieval buildings.

*Prerequisite: None.*

**FA/VISA 2560 6.0 Renaissance and Baroque Art.** An examination of the art of Northern and Southern Europe from the early 15th century to the mid-18th century. (Same as AS/HUMA 2140 6.0.)

*Prerequisite: FA/VISA 1110 6.0, any first-year Humanities course, or permission of the course director.*

**FA/VISA 2620 6.0 Modern Art: 1750 to the Present.** A survey of modern art and western visual culture from the mid-18th century to the present, with emphasis on European and North American developments in art and architecture. (Same as AS/HUMA 2170 6.0.)

*Prerequisite: None.*

**FA/VISA 2680 3.0 Contemporary Art.** An introduction to art in North America and Europe since World War II, which includes film, video and performance art as well as the more traditional media. Examination of the theoretical issues involved in contemporary art as well as study of the achievements of individual artists and groups. Visits to galleries in Toronto are an essential part of the course.

*Prerequisite: FA/VISA 1110 6.0 or permission of the course director.*

**FA/VISA 2910 6.0 History of Design.** Functional objects, past and present, and their relationship to the process of design, conditions of the time, the problems met, important influences and the importance to our time are examined. The primary focus is from the industrial revolution to today with required

reading and much critical looking at our own environment. Required course for Design major. (Same as FA/YSDN 2102 6.0.)

*Prerequisite: FA/VISA 1040 3.0 (FA/YSDN 1101 3.0) or FA/VISA 1000 3.0 or permission of the Course Director.*

*Degree credit exclusion: the former FA/VISA 3910 6.0.*

**FA/VISA 3001 3.0 Critical Issues in the Studio II.** This course further expands students' awareness of critical debates in contemporary art practice. It focuses on how artists contextualize their own work in relation to key areas of contemporary thought. Topics vary from year to year and have included:

- A. The Artist in Electronic Culture
- B. The Artist as Activist and Educator
- C. The Body and Technology

*Prerequisite: Successful completion of 1000- and 2000-level studies and practicum requirements for the BFA stream, or permission of the course director for non-majors.*

**FA/VISA 3110 6.0 Historical Techniques and Materials of the Artists.** An intensive study of the media and the methods employed by artists throughout history. There are four units of study in the course: drawing, printmaking, painting and sculpture, which are examined in a series of lectures, studio, experimentation, demonstrations and gallery visits. Compulsory materials fee applies.

*Note: It is strongly recommended that students have taken at least six credits in studio and 12 credits in art history before enrolling in this course.*

**FA/VISA 3341 6.0 The Art of India.** A survey of the painting, sculpture and architecture of India, from the Indus Valley Civilization to modern times; the informing religions of Buddhism and Hinduism are also examined in some detail. Special emphasis is placed on Buddhist and Hindu iconography. (Same as AS/HUMA 3410 6.0.)

*Prerequisite: None.*

**FA/VISA 3343 3.0 The Art of China.** A chronological survey of the visual arts of China with an emphasis on painting and sculpture. Oriental art, as it relates to religion and philosophy, is also discussed, as well as occasional forays into Chinese poetry.

*Prerequisite: None.*

**FA/VISA 3344 3.0 The Art of Japan.** A thematic survey of the visual arts of Japan with an emphasis on painting and sculpture. Oriental art, as it relates to religion and philosophy, is also discussed, as well as occasional forays into Japanese poetry.

*Prerequisite: None.*

**FA/VISA 3350 3.0 Native Art of the Americas: North America.** An introduction to the native art and architecture of North America. Lectures concentrate upon a

descriptive survey of the major culture areas and seminars are devoted to an in-depth exploration of special topics.

*Prerequisite: One of FA/VISA 1110 6.0 or FA/VISA 1340 6.0 or FA/VISA 2620 6.0 or FA/INFA 1900 6.0, or permission of the course director.*

**FA/VISA 3540 3.0 Studies in Medieval Art and Architecture.** A study of one period or subject in the art of the medieval era. Selected topics vary from year to year.

*Prerequisite: FA/VISA 2540 6.0 or permission of the course director.*

**FA/VISA 3560 3.0 Studies in Renaissance and Baroque Art.** Selected problems in painting, sculpture and/or architecture from the Renaissance and Baroque periods. Selected topics vary from year to year.

*Prerequisite: FA/VISA 2560 6.0 or permission of the course director.*

**FA/VISA 3580 3.0 Studies in the Art and Architecture of Italy.** Considerations of selected topics in the painting, sculpture and/or architecture of Italy. Selected topics vary from year to year.

*Prerequisite: FA/VISA 2560 6.0 or permission of the course director.*

**FA/VISA 3620 3.0 Studies in 19th-Century Art.** Selected topics in the painting, sculpture and architecture of the 19th century with emphasis on European developments. Selected topics vary from year to year and have included:

- A. Realism and Impressionism
- B. Romantic Art

*Prerequisite: FA/VISA 2620 6.0 or permission of the course director.*

**FA/VISA 3680 3.0 Studies in Modern Art.** Selected aspects of modern painting, sculpture and architecture concentrates on problems of the late 19th and 20th centuries. Topics dealing with European, Canadian and/or American art are studied. Selected topics vary from year to year and have included:

- B. Representation, Modernity and Identity
- C. Abstract Expressionism and Contemporary European Movements
- D. Canadian Art Outside Quebec: 1940-1980
- K. Expressionism and Neo-Expressionism
- M. Representations of the Gendered Self

*Prerequisite: FA/VISA 2620 6.0 or permission of the course director.*

**FA/VISA 3690 3.0 Theoretical Issues in Contemporary Art.** An introduction to major theoretical issues surrounding the practice and criticism of contemporary art include feminism, psychoanalysis, simulation theory, institutional critique, postcolonial theories of ethnicity, elite and popular cultures and issues of site-specific, public, political and digital art.

*Prerequisite: FA/VISA 2680.03 or permission of instructor.*

*Degree credit exclusion: FA/VISA 3800C 3.0.*

**FA/VISA 3720 6.0 Canadian and American Art.** A survey of North American art. Architecture, painting and sculpture are considered although special emphasis may be placed at the discretion of the course director.

*Prerequisite:* FA/VISA 2620 6.0 or permission of the course director.

**FA/VISA 3800 3.0 or FA/VISA 3820 6.0 Special Options: Studies.** In any given year, one or more courses directly related to the study of art history or theory may be offered. Selected topics vary from year to year.

*Prerequisite:* Permission of the course director.

**FA/VISA 3830 3.0 Aspects of Portraiture.** The artistic theory, psychology and development of portraiture in the West from Roman times to the portrait photograph, with emphasis on portraits after 1400. Lectures, discussions and student presentations.

*Prerequisite:* FA/VISA 1110 6.0 or permission of the course director.

**FA/VISA 3840 3.0 Aspects of Modern Portraiture.** A lecture survey course with frequent periodic discussions on the topic of portraiture, group-portraiture and self-portraiture from the beginning of the 18th century to the present in Western art (Europe and North America). Emphasis is on individual artists as well as the formulae and contexts of portrait-representation with a view to outlining how modern and contemporary portraiture draws on the traditions.

*Prerequisite:* FA/VISA 1110 6.0, FA/VISA 2560 6.0, FA/VISA 2620 6.0, or permission of the course director.

**FA/VISA 3930 6.0 History of Photography.** A survey of the history of photography as an art form from early experiments in the medium to contemporary work.

*Prerequisites:* FA/VISA 1110 6.0, FA/VISA 1340 6.0 or FA/VISA 2620 6.0, or permission of the course director.

**FA/VISA 3950 3.0 Aspects of Architecture in the West.** The three components of architecture — structure, form and function — are studied both chronologically and thematically with emphasis on the role of the architect. Extensive use of modern and contemporary structures and building sites is included.

*Prerequisite:* An introductory art history course or permission of the course director.

**FA/VISA 4100 6.0 Independent Studies: Art History.** A study program for highly motivated students in an art history discipline. This course gives an individual the opportunity to pursue a specific and intensive personal study which must be arranged in consultation with the instructor.

*Prerequisite:* Limited to students who have completed a fourth-year course in art history; must have permission of the directing faculty member. Applications may be obtained from, and must be submitted to, the Department of Visual Arts in the spring for the following academic session.

**FA/VISA 4310 6.0 Art Criticism: History, Theory, Practice.** The historical

development of art criticism with an emphasis upon the practice of art criticism and critical writing on art today.

*Prerequisite:* Fourth-year standing or equivalent, or permission of the course director.

*Note:* FA/VISA 2620 6.0 provides useful background material.

**FA/VISA 4340 6.0 Asian Art.** An in-depth seminar dealing with special areas in Indian, Chinese, or Japanese art. (Same as AS/HUMA 4400 6.0).

*Prerequisite:* Six credits in Asian art at the 3000-level.

**FA/VISA 4370 6.0 Signs and Symbols in Western Art.** An introduction to the pictorial language of attributes, emblems and other identifiers, as developed in classical, Christian and secular art and architecture. Lectures, discussions and student presentation.

*Prerequisite:* One of FA/VISA 1110 6.0 or FA/VISA 1340 6.0 or FA/VISA 2620 6.0; third or fourth year standing in any department, or permission of the course director.

**FA/VISA 4540 6.0 Problems in Ancient or Medieval Art and Architecture.** A seminar concentrating on areas and problems of ancient or medieval art and architecture. In any given year, the course focuses upon a particular problem, theme, or specified chronological period for intensive study.

*Prerequisite:* FA/VISA 2540 6.0 or FA/VISA 3540 3.0 or permission of the course director.

**FA/VISA 4580 3.0 Problems in the Art and Architecture of Italy.** Seminar concentrating on areas and problems in the history and theory of Italian painting, sculpture or architecture of the 14th, 15th and 16th centuries. In any given year, the course focuses upon a particular problem, theme, or specified chronological period for intensive study.

*Prerequisite:* FA/VISA 2560 6.0 and permission of the course director.

**FA/VISA 4620 3.0 Major Movements in Modern Art.** A seminar on a single major movement in art in the early 20th century. Teaching is based upon discussion, reports and presentation of papers. Topics vary from year to year and have included:

B. Fin-de-siecle: Post-Impressionism, Symbolism, Art Nouveau

F. The Artist and the Museum

H. Nationalism and Modern Art

*Prerequisites:* One of FA/VISA 1110 6.0 or FA/VISA 1340 6.0 or FA/VISA 2620 6.0; third- or fourth-year standing in any department or permission of the course director.

*Note:* Reading knowledge of French is recommended.

**FA/VISA 4640 3.0 Problems in Contemporary Art.** Seminars consider special problems in the visual arts of this century.

*Prerequisite:* FA/VISA 2620 6.0 and preferably one other course in 19th- or 20th-century art, or permission of course director.

**FA/VISA 4720 3.0 Problems in Canadian Art.** Seminars on selected topics in historical or contemporary Canadian painting, sculpture and architecture. Topics vary from year to year and have included:

B. Quebec Art: 1935 – 1975

E. Canadian 19th-Century Architecture

*Prerequisite:* FA/VISA 2620 6.0 or permission of the course director.

**FA/VISA 4800 3.0, FA/VISA 4820 6.0 Special Options: Studies.** In any given year, one or more courses directly related to the study of art history or theory may be offered.

*Prerequisite:* Permission of the course director.

## Winters College – Fine Arts

### Office:

269 Winters, 416-650-8199

### Academic Adviser:

Anatol Schlosser

*Note:* Not all courses are necessarily offered in any given year. For details of courses offered, consult the academic program office.

**FA/WC 1940 6.0 Creative Writing: The Process of the New.** This course is an innovative combination of creative writing studios and general lecture. This format is to both promote and inspire creativity, and to encourage and develop an imaginative and intellectual perception of the fine arts, literature and the media in the 20th century.

*Degree credit exclusion:* FA/FACS 1940 6.0.

## School of Women's Studies/ École des études des femmes

**School of Women's Studies Office/Bureau de l'École des études des femmes :**

S711 Ross Building, 416-650-8144

### Web Address:

[www.yorku.ca/wsnyork](http://www.yorku.ca/wsnyork)

**Chair of the School/Directrice de l'École études des femmes :**

V. Lindström

**Director of Undergraduate Programs/  
Directrice des programmes de premier cycles :**

G. Mianda

**Glendon Program Office/Bureau du  
program de Glendon:**

160 York Hall, 416-487-6828

**Program Coordinator at Glendon/  
Coordonnatrice du program à Glendon :**

G. Mianda

**Arts Program Office/Bureau du program:**  
S711 Ross Building, 416-650-8144  
**Program Coordinator at Arts/**  
**Coordonnatrice du program à Glendon:**  
K. McPherson

**Atkinson Program Office/Bureau du**  
**program:**  
S711 Ross Building, 416-650-8144  
**Program Coordinator at Atkinson/**  
**Coordonnatrice du program à Glendon:**  
A. O'Reilly

**Faculty Members in the School of Women's**  
**Studies/Membres du corps enseignant**

**Professors/Professeures :**  
S. Ehrlich, R. King, M. Luxton

**Professors Emeriti/Professeures émérite s:**  
N. Black, S. Zimmerman

**Associate Professors/Professeures**  
**agrégées :**  
B. Bradbury, J. Couchman, W. Giles,  
M. Kadar, V. Lindström, N. Mandell, G.  
Mianda, H. Moghissi, J. Newton, L. Peake,  
E. Reiter, A. Shteir, A. Testaferri,  
S. Whitworth

**Associate Professor Emeritus/Professeure**  
**agrégée émérite :**  
E. Hine

**Assistant Professors/Professeures**  
**adjointes :**  
B. Cameron, A. Francois, M. Jokiniemi,  
B. Lee, J. Michaud, A. O'Reilly,  
S. Rosenberg

## Women's Studies

Women's Studies is both a complement and a corrective to established fields at York and a new academic discipline of its own. Until recently, both the humanities and the social sciences reflected predominantly male perspectives. Women have been largely invisible in literature, art, history, philosophy, politics, social sciences and law. Through cross-cultural and disciplinary assessment, Women's Studies exposes misconceptions about women expressed through myth, ideologies, teachings and writings. It replaces negative cultural images of women with visions that reaffirm women's strength, capability and intelligence.

The School of Women's Studies unites academic resources at York University in Women's Studies, bringing together the undergraduate and graduate programs, the non-credit Bridging Program for Women and the Centre for Feminist Research/Le centre de recherches féministes à York.

A feature which distinguishes the *undergraduate Glendon Women's Studies program* from the other two offered at York is its bilingual focus. Non-parallel courses are offered in both languages. As a result, a genuine dialogue develops between the approaches of anglophones and francophones to theory, philosophy, literature, legal structures and language.

## School of Women's Studies Courses of Instruction/École des études des femmes Description des cours

*Note: Not all courses will necessarily be offered in any given year. Courses may be offered at Glendon or on the Keele Campus, during the day or in the evening. For information about specific offerings, or for a listing of other courses that count towards program credit, please consult the School of Women's Studies Supplemental Calendar, available in Room S711, Ross Building, Keele Campus or 160 York Hall, Glendon College.*

*Note: For purposes of meeting program requirements, all Foundations courses will count as six credits towards the major.*

**AS/WMST 2500 6.0 On Women: An Introduction to Women's Studies.** This course explores the social, political and economic institutions which shape women's lives and introduces key theoretical approaches within feminist scholarship to investigate specific feminist issues in areas such as women's writing, visual representations, family, race, sexuality, women and work.

*Cross-listed to: AK/GL/WMST 2500 6.0, GL/SOSC 2950 6.0.*

*Degree credit exclusions: AS/AK/GL/WMST 2510 9.0, AS/SOSC 2180 6.0, AS/SOSC 2180 9.0, AS/HUMA 2930 6.0, AS/HUMA 2930 9.0, GL/WMST 2950F 6.0, AK/WMST 2000 6.0.*

**AS/WMST 2500 6.0 Femmes, savoirs et sociétés.** Ce cours offre une étude pluridisciplinaire de 1) la structure sociale des positions accordées à la femme dans l'économie, le mariage, les professions médicales et légales; 2) les rôles que jouent la violence sexuelle, l'idéologie et le langage dans cette structure sociale; 3) les divers mouvements, théories et expressions artistiques féministes qui refusent cette structure.

*Identique à GL/SOSC 2950 6.0, AK/GL/WMST 2500 6.0.*

*Cours incompatibles : AS/AK/GL/WMST 2510 9.0, AS/SOSC 2180 6.0, AS/SOSC 2180 9.0, AS/HUMA 2930 6.0, AS/HUMA 2930 9.0, GL/WMST 2950F 6.0, AK/WMST 2000 6.0.*

**AS/WMST 2501 3.0 Language and Gender.** This course explores the relationship between language and sex/gender systems from a feminist perspective. The main areas investigated are language and gender stereotypes; language, power and women's status; and male vs. female communicative style in different socio-cultural contexts.

*Cross-listed to: AK/GL/WMST 2501 3.0, AS/LING 2410 3.0, GL/SOSC 2900 3.0.*

**AS/WMST 2502 6.0 Western Feminism in a Cultural Context.** This course explores feminist ideas in Western culture and the contexts within which these ideas were produced. We concentrate on works by or

about women who question the inferior positions of women in many dominant ideologies and propose individual or collective solutions.

*Cross-listed to: AK/GL/WMST 2502 6.0, GL/HUMA 2960 6.0.*

*Degree credit exclusions: GL/WMST 2960E 6.0, GL/WMST 2970F 6.0, AS/AK/GL/WMST 2502 6.0.*

**AS/WMST 2502 6.0 Les écrits féministes à travers l'histoire occidentale.** Ce cours présente et analyse dans leur contexte historique les arguments féministes en faveur d'une amélioration de la condition des femmes. Nous étudions des écrits des femmes, et à propos des femmes, qui questionnent les inégalités entre femmes et hommes, et qui en proposent des solutions individuelles ou collectives.

*Identique à AS/AK/WMST 2502 6.0.*

*Cours incompatibles : GL/WMST 2960E 6.0, GL/WMST 2970F 6.0, GL/HUMA 2970F 6.0, GL/FRAN 2970F 6.0, AS/AK/GL/WMST 2502 6.0.*

**AS/WMST 2503 6.0 Femmes francophones au Canada.** Étude de la vie des femmes canadiennes françaises dans des régions différentes - le Québec, l'Ontario, le Manitoba et les Maritimes, utilisant des lettres, des journaux intimes, des autobiographies. L'expérience individuelle sera examinée dans le contexte historique.

*Identique à AK/GL/WMST 2503 6.0, GL/HUMA 2980 6.0, GL/FRAN 2980 6.0.*

*Cours incompatibles : GL/WMST 2011F 6.0, GL/WMST 2980F 6.0.*

**AS/WMST 2504 3.0 Women and Education.**

This course critically explores gender patterns in the education process, including: the political economy of education, issues of inequality and access, and the gendered implications of different theories of learning and teaching styles.

*Cross-listed to: AK/GL/WMST 2504 3.0, GL/SOSC 2600 3.0.*

*Degree credit exclusions: GL/WMST 3960 3.0, GL/SOSC 3014B 6.0.*

**AS/WMST 2504 6.0. Les femmes francophones et l'éducation: perspectives canadienne et internationale.** Ce cours présente et analyse le rôle des femmes francophones au Canada en tant qu'étudiantes et en tant qu'enseignantes au sein des divers systèmes d'éducation depuis le 18<sup>e</sup> siècle jusqu'à nos jours.

*Identique à AK/GL/WMST 2504 6.0, GL/SOSC 2600 6.0, GL/ILST 2600 6.0.*

*Cours incompatibles: GL/WMST 3930F 3.0, GL/WMST/SOSC 3980B 6.0, GL/SOSC 3014 6.0, GL/WMST 3960F 3.0, GL/WMST 3960F 6.0, GL/SOSC 3011F 3.0, AK/AS/GL/WMST 2504 3.0, GL/SOSC 2600 3.0.*

**AS/WMST 2510 9.0 On Women: An Introduction to Women's Studies.** This course explores the social, political and economic institutions which shape women's lives and introduces key theoretical approaches within feminist scholarship to investigate specific feminist issues in areas such as women's writing,

visual representations, family, race, sexuality, women and work. (This course is affiliated with Founders College.)

*Cross-listed to:* AK/GL/WMST 2510 9.0, AS/HUMA 2930 9.0, AS/SOSC 2180 9.0.

*Degree credit exclusions:* AS/SOSC 2180 6.0, AS/HUMA 2930 6.0, GL/WMST 2950 6.0, GL/SOSC 2950E 6.0, GL/SOSC 2950F 6.0, GL/WMST 2950 6.0, AK/WMST 2000 6.0.

**AS/WMST 2801 6.0 Women's Lives Today: Issues and Experiences.** This course uses interdisciplinary approaches to explore various dimensions of women's lives today including ecology, education, spirituality, health and culture. The course will investigate, from both a humanities and social science perspective, the complexity of women's lives today.

*Cross-listed to:* AK/GL/WMST 2801 6.0, GL/SOSC 2955 6.0.

**AS/WMST 3500 6.0 The Meaning of Feminist Inquiry.** This course examines the basic questions of feminist inquiry as they arise in theology, science, history, history of ideas, literature and the arts. It focuses in particular on how meaning is constructed in different discourses.

*Cross-listed to:* AK/GL/WMST 3500 6.0, GL/HUMA 3610 6.0.

*Degree credit exclusions:* AK/WMST 3000 6.0.

**AS/WMST 3501 6.0 Feminist Research Methods.** This course examines methodological and qualitative issues related to doing feminist research in the Social Science disciplines, including: objectivity, standpoint theory, interdisciplinarity, feminist challenges to specific disciplines, inclusivity, methodological tools and postmodernism. We also explore appropriate research.

*Cross-listed to:* AK/GL/WMST 3501 6.0, AS/SOSC 3501 6.0, GL/SOSC 3604 6.0.

*Degree credit exclusions:* AS/SOSC 3990U 6.0, AS/SOCI 4600 6.0, GL/WMST 3900E 6.0, AK/WMST 4300 6.0.

**AS/WMST 3501 6.0 Méthodologies et recherches en études des femmes.** Ce cours analyse les problèmes spécifiques que l'on doit surmonter lorsqu'on entreprend des recherches multidisciplinaires et interdisciplinaires en études des femmes. Le cours vise également à développer les méthodes de recherche requises par ces études.

*Cours incompatibles :* AS/SOCI 4600 6.0, GL/WMST 3900 3.0.

*Identique à:* AK/GL/WMST 3501 6.0, GL/SOSC 3604 6.0.

**AS/WMST 3502 6.0 Diversities of Women: Gender, Race and Class in a Western Context.** This course examines gender, race/ethnicity and class as interacting social structures and lived experiences within a Western context. It reviews theories about how to understand these phenomena as well as issues affecting aboriginal, visible minority working-class and lesbian women's lives.

*Cross-listed to:* AK/GL/WMST 3502 6.0, GL/SOSC 3602 6.0.

*Degree credit exclusions:* AK/WMST 3020 6.0, AS/SOSC 3190B 6.0.

**AS/WMST 3502 6.0 Rapports sociaux d'ethnicité et de sexe.** Ce cours élabore sur les problématiques de l'identité ethnique et des rapports sociaux de sexe et tente, à la fois, d'analyser leur articulation et d'identifier leurs moments de rupture et de solidarité. Thèmes que seront abordés: Les rapports sociaux de sexe, l'ethnicité (race), l'immigration (en rapport avec les femmes), les femmes autochtones, le pouvoir, la solidarité féminine.

*Identique à:* AK/GL/WMST 3502 6.0, GL/SOSC 3602 6.0.

*Cours incompatibles :* AS/SOSC 3190B 6.0, GL/WMST 3300F 6.0, AK/WMST 3020 6.0.

**AS/WMST 3503 6.0 Contemporary Global Feminist Issues.** This course reviews debates about the impact of colonization and development on women in a non-western context. It looks at how transformations in the global economy affect women's lives and how women organize globally and locally to empower themselves economically and politically.

*Cross-listed to:* AK/GL/WMST 3503 6.0, GL/ILST/SOCI/SOSC 3665 6.0.

*Degree credit exclusions:* AK/WMST 3010 6.0, GL/WMST 3665E 6.0.

**AS/WMST 3503 6.0 Femmes et mondialisation.** Ce cours porte sur la situation des femmes dans un contexte de mondialisation. Il traite de l'impact de la colonisation, de la modernisation sur les conditions de vie des femmes et analyse leur capacité à s'auto-organiser économiquement et politiquement.

*Identique à:* AK/GL/WMST 3503 6.0, GL/SOCI/SOSC 3665 6.0.

*Cours incompatible :* AS/AK/GL/WMST 3503 6.0 (English).

**AS/WMST 3504 6.0 Women and Aging.**

This course analyses the experience of women as they move into old age. We analyse myths that surround the concept of old woman using story, biography, poetry and film. Topics include: sexuality beyond menopause; isolation and poverty; relationships between women; anger and creative energy; patterns of language and the effects of self-imposed silencing; the re-evaluation of the crone.

*Cross-listed to:* AK/GL/WMST 3504 6.0, GL/HUMA 3604 6.0.

*Degree credit exclusions:* AS/SOCI 4090P 3.0, AS/SOCI 4680 3.0, AK/WMST 3001K 3.0.

**AS/WMST 3505 3.0 Gender and the City.** This course examines the relationship between socially constructed gender relations and the changing nature and form of contemporary urban areas.

*Cross-listed to:* AK/GL/WMST 3505 3.0, GL/SOSC 3617 3.0, AS/SOSC 3790A 3.0.

**AS/WMST 3506 6.0 Self and Identity: Contemporary Feminist and Antiracist Perspectives.** This course examines conceptions of the self and analyses the consequences of oppression and various types of discrimination on self-determination, identity and the possibility of freedom, from a feminist and anti-racist perspective.

*Cross-listed to:* AK/GL/WMST 3506 6.0, GL/PHIL 3606 6.0.

**AS/WMST 3507 6.0 Les femmes et la santé.** Sous une perspective historique et sociologique, ce cours aborde ces sujets: la santé physique et mentale des femmes, les traitements qu'elles reçoivent au sein de la profession médicale, leurs rôles en tant que guérisseuses au sein de cette profession.

*Identique à:* GL/NATS 3995 6.0, GL/SOSC 3995 6.0, AK/GL/WMST 3507 6.0.

*Cours incompatibles :* GL/WMST 3995E 3.0, GL/WMST 3995 3.0, AS/AK/GL/WMST 3507 3.0.

*Ce cours ne satisfait pas aux exigences des sciences naturelles de la Faculté des Arts.*

**AS/WMST 3508 6.0 Mothering and Motherhood.** This course examines motherhood as it is theorized and analysed in interdisciplinary feminist scholarship and as it is portrayed in women's fictional and autobiographical writings. The history, sociology, psychology and politics of motherhood with emphasis on class, cultural and racial differences are investigated.

*Cross-listed to:* AK/GL/WMST 3508 6.0, AS/HUMA 3960 6.0, GL/SOSC 3608 6.0.

*Degree credit exclusions:* AK/WMST 3040 6.0, AK/WMST 3001N 6.0.

**AS/WMST 3509 6.0 Women Organizing.** Women have a long tradition of organizing to expand their rights, resist oppression, challenge and defend traditional values, and to change their societies. This course documents and analyses the patterns of women's activism using historical, cross-cultural and contemporary sources.

*Cross-listed to:* AK/GL/WMST 3509 6.0, AS/SOSC 3125 6.0.

*Degree credit exclusions:* AS/SOSC 3990B 3.0.

**AS/WMST 3510 6.0 Women and Work: Production and Reproduction.** This course explores the conditions of women's work, paid and unpaid. The historical development of a sexual division of labour and the roles played by the family, employers, trade unions and government policy in the gendering of jobs is examined.

*Cross-listed to:* AK/GL/WMST 3510 6.0, AS/SOSC 3130 6.0, AK/SOSC 3380 6.0, GL/WKST 3610 6.0.

**AS/WMST 3511 3.0 Women's Sexualities.** This course examines the constructions of women's sexualities historically and currently. The influence of religion, medicine, law, media

and the state are critically examined as are women's attempts to shape their own sexuality as heterosexuals, bisexuals and lesbians.

*Cross-listed to:* AK/GL/WMST 3511 3.0, GL/SOSC 3625 3.0.

*Degree credit exclusions:* GL/WMST 3625E 6.0, GL/WMST 3625F 3.0, GL/WMST 3990E 6.0, GL/WMST 3990F 3.0, GL/SOSC 3990E 6.0, GL/SOSC 3990F 3.0, GL/SOSC 3990F 6.0, GL/SOSC 3016E 6.0, GL/WMST 3013 3.0, AS/AK/GL/WMST 3511 3.0 (French version).

**AS/WMST 3511 3.0 Femmes, sexualités, pouvoir.** Ce cours examine les différents débats féministes actuels qui encadrent, et, à la fois, définissent la sexualité des femmes dans le milieu canadien d'aujourd'hui. Les lectures proposent d'analyser les structures socio-politique et économique qui influencent l'idéologie étatique à propos de la sexualité féminine.

*Identique à* AK/GL/WMST 3511 3.0, GL/SOSC 3990 3.0.

*Cours incompatibles :* GL/WMST 3990E 3.0, GL/WMST 3990F 3.0, GL/SOSC 3990E 3.0, GL/WMST 3625F 3.0, GL/WMST 3625E 3.0, GL/SOSC 3625E 3.0, GL/WMST 3013E 3.0, GL/SOSC 3016 3.0.

**AS/WMST 3512 6.0 Gender and the Law: International Perspectives.** This course takes a comparative look at gender within the context of legal systems, with a focus on common law jurisdictions. Topics such as marriage breakdown, abortion and sexual assault are examined from both a Canadian and international perspective.

*Cross-listed to:* AK/GL/WMST 3512 6.0, GL/ILST 3600 6.0.

**AS/WMST 3513 6.0 Les femmes et la loi.** Ce cours examine les questions relatives au sexe à l'égard des lois fédérales et ontariennes: la constitution canadienne, la nouvelle loi sur la famille; le droit criminel, le contrôle législatif du travail, la loi et la profession médicale, la loi et l'hébergement.

*Identique à* AK/GL/WMST 3513 6.0, GL/SOSC 3975 6.0.

*Cours incompatibles :* GL/WMST 3975F 6.0.

**AS/WMST 3514 6.0 Les femmes immigrées au Canada.** Ce cours combine une analyse de la situation des femmes immigrées au Canada avec un travail sur le terrain, stratégie qui permet aux étudiant(e)s d'examiner les orientations théoriques portant sur le statut des femmes immigrées par rapport aux situations actuelles.

*Identique à* AK/GL/WMST 3514 6.0, GL/SOSC 3695 6.0.

*Cours incompatibles :* AK/SOSC 3370 6.0, GL/WMST 3695F 6.0.

**AS/WMST 3515 3.0 Renaissance Women.** This course explores the images of women, their activities and their artistic and literary production in Europe between 1400 and 1600. Materials analyzed include historical,

theological, medical, literary and artistic works by and about individual women and groups of women.

*Cross-listed to:* AK/GL/WMST 3515 3.0, GL/HUMA 3945 3.0.

*Degree credit exclusions:* GL/HUMA 3230B 3.0, GL/WMST 3945B 3.0.

**AS/WMST 3515 3.0 La femme à la Renaissance.** Les images, les activités, et les expressions de la femme en Europe entre 1400 et 1600. Les documents étudiés comprennent des oeuvres historiques, théologiques, médicales, littéraires et artistiques réalisées par et sur des femmes ou groupe de femmes.

*Identique à* AK/GL/WMST 3515 3.0, GL/HUMA 3945 3.0.

*Cours incompatibles:* GL/HUMA 3230B 3.0, GL/WMST 3945B 3.0.

**AS/WMST 3516 3.0 Women and Politics.** This course examines women's political position in advanced capitalist countries. The focus is historical, theoretical and issue-oriented. Issues examined include the politics of racism, sexuality, reproduction, pornography within formal political structures and community organizing.

*Cross-listed to:* AK/GL/WMST 3516 3.0, AS/POLS 3450 3.0, AS/SOSC 3170 3.0.

*Degree credit exclusions:* GL/POLS 4960E 6.0, GL/WMST 4960E 6.0.

**AS/WMST 3518 6.0 Feminist Approaches to Religion.** This course provides an historical and comparative analysis of the relations between feminism and religion. It explores how religion has strengthened the feminist critique of women's oppression and how feminists have questioned theological conceptions of women's social and spiritual place.

*Cross-listed to:* AK/WMST 3518 6.0, GL/WMST 3518 6.0.

*Degree credit exclusion:* AS/AK/GL/WMST 3800D 6.0.

**AS/WMST 3519 6.0 Contemporary Women's Rituals: An Introduction.** Women have been creating their own significant rituals both inside and outside established religious movements for centuries. This course explores this phenomenon and analyzes a variety of contemporary women's rituals in light of contemporary feminist ritual theory and methodology.

*Cross-listed to:* AK/GL/WMST 3519 6.0.

**AS/WMST 3520 3.0 Women and the Professions: Feminist Perspectives on Professional Work.** This course investigates women's experiences in the professions. Using feminist scholarship on gender and professionalization, the course explores women's place in female-dominated occupations such as midwifery, nursing and social work, and in male-dominated professions such as law and engineering.

*Cross-listed to:* AK/WMST 3520 3.0, GL/WMST 3520 3.0.

**AS/WMST 3521 3.0 Women and Disabilities.**

This course examines the experiences of women with disabilities, including how definitions of ability are gendered, how differently-abled women define themselves, the quality of services available to disabled women and women's roles in the disability movement.

*Cross-listed to:* AK/WMST 3521 3.0, GL/WMST 3521 3.0.

**AS/WMST 3522 3.0 Early Feminist Writings: Challenges and Critiques before 1848.** This course studies writings from before 1848 that contest women's place in society and illustrate challenges, critiques, and strategies about, topics including women's education, societal roles, power and agency. Writings are placed in historical contexts. The continued relevance of these early works are assessed.

*Cross-listed to:* AK/GL/WMST 3522 3.0.

**AS/WMST 3523 6.0 Feminisms and Film.** Feminist filmmakers deploy film as a provocative cultural form to explore women's complex social and cultural locations and issues. This course explores theoretical and practical points of contact between feminism and film to encourage new readings of the intricate subject 'woman'.

*Cross-listed to:* AK/GL/WMST 3523 6.0.

**AS/WMST 3524 3.0 Colonialism, Gender and Societies in Black Africa.** Through its "civilizing" mission, colonization contributed to the development of gender relations in African societies, among other things. In this sense, this course deals with the social relations of gender in colonial and post-colonial Africa.

*Cross-listed to:* AK/GL/WMST 3524 3.0, GL/HIST 3658 3.0, GL/ILST 3658 3.0, GL/SOCI 3658 3.0.

**AS/WMST 3524 3.0 Colonialisme, genre sociétés en Afrique noire.** La colonisation par sa mission civilisatrice a contribué entre autres à forger des rapports de genre dans les sociétés africaines. Dans ce sens, ce cours traite de son impact sur les rapports sociaux de sexe autant en Afrique coloniale que postcoloniale.

*Identique à* AK/GL/WMST 3524 3.0, GL/HIST 3658 3.0, GL/ILST 3658 3.0, GL/SOCI 3658 3.0.

**AS/WMST 3525 3.0 Themes in Women's Studies.** This course explores specific feminist issues that have generated significant debate among activists, scholars and social commentators. Each year, the course will address a theme such as: interdisciplinarity, diversity among women, sexualities and the body, globalization, and women and the state.

*Cross-listed to:* AK/GL/WMST 3525 6.0.

**AS/WMST 3800 3.0/3800 6.0 Special Topics.**

The School of Women's Studies will occasionally offer three or six credit special topics courses. Specific course proposals will be submitted as required and course description will be published annually in the School of Women's Studies supplemental calendar.

**AS/WMST 3801 6.0 Immigrant Women in Canada.** This course examines historic, socio-economic and cultural situation of immigrant women in Canada. It analyzes the economy, the

State and dominant cultural attitudes in terms of gender, class and race. Women's roles are explored mainly in areas of work, family, health, culture and politics.

*Cross-listed to:* AK/SOSC 3370 6.0, AK/WMST 3801 6.0, GL/WMST 3801 6.0.

**AS/WMST 4500 6.0 Feminist Theories.** This course engages with theoretical debates within feminism. Sections may focus on: jurisprudence, pedagogy, postmodernism, psychoanalysis, praxis/agency, or identity and difference. The course is informed by a range of political positions and addresses the complexity of differences based on race, class, ability and sexual identity.

*Cross-listed to:* AK/GL/WMST 4500 6.0, AS/SOSC 4160 6.0, GL/SOSC/SOCI 4685 6.0.

*Degree credit exclusions:* AK/WMST 3030 6.0, AS/SOCI 4600 6.0, GL/WMST 4685 6.0.

**AS/WMST 4501 6.0 Une analyse comparative des théories féministes.** Ce cours propose une analyse comparative des différentes théories féministes et offre une méthode d'exploration et de compréhension de la division des sexes dans notre société. Il analyse également les présupposés et les implications socio-politiques et idéologiques de ces théories divergentes.

*Identique à:* AK/GL/WMST 4501 3.0, GL/SOSC 4685 6.0, GL/SOCI 4685 6.0.

*Cours incompatibles :* GL/WMST 4685B 6.0, GL/WMST 4685F 6.0, GL/SOSC 4300B 6.0.

**AS/WMST 4502 6.0 Violence Against Women.**

This course examines gender-based violence in its many forms, such as domestic violence, state violence, legal violence (punishment) and cultural violence (rituals), and analyses the global context in which gender and power are constructed and violence against women is perpetuated and tolerated.

*Cross-listed to:* AK/GL/WMST 4502 6.0, GL/SOSC 4602 6.0.

*Degree credit exclusions:* AK/SOSCI 3850 6.0, AS/SOCI 4830 6.0, AS/SOCI 4810 6.0, GL/WMST 3965F 3.0, GL/SOSC 3965F 3.0, AK/WMST 3001L 6.0, GL/WMST 4600E 6.0.

**AS/WMST 4502 3.0 La femme et la violence.**

Ce cours examine la violence faite à la femme, les différentes formes dans lesquelles cette violence s'exprime et les diverses analyses féministes qui essaient de comprendre du point de vue théorique, socio-politique et psychologique les causes et les effets de cette violence.

*Identique à:* AK/GL/WMST 4502 3.0, GL/SOSC 4602 3.0.

*Cours incompatibles :* GL/SOSC 3400 3.0, GL/SOSC 3014 3.0, GL/WMST 3965F 3.0, GL/WMST 3965E 3.0, GL/WMST 4600E 6.0, GL/WMST 4011E 6.0 (Fall/Winter 1994), GL/SOSC 4011E 6.0 (Fall/Winter 1994), AK/SOCI 3850 6.0, AS/SOCI 4810 6.0.

**AS/WMST 4503 3.0 Politics of the Canadian Women's Movement.**

This course examines the politics of the Canadian women's movement, emphasizing its historical and contemporary development. We examine the suffrage movement, the inter-war years and the

development of second wave feminism in light of Canada's unique political structures and current challenges to feminism.

*Cross-listed Courses:* AK/GL/WMST4503 3.0, AS/POLS4155 3.0, GL/POLS4603 3.0.

*Integrated with:* GS/POLS 5150 3.0.

**AS/WMST 4504 6.0 Groupes de femmes et travail communautaire en Ontario français.** Ce cours permettra aux étudiantes d'acquérir une perspective théorique et une formation de travail pratique et communautaire auprès de groupes de femmes francophones en Ontario. Ce cours se divise en deux parties: l'une théorique, l'autre d'insertion et supervision.

*Identique à:* AK/GL/WMST 4504 6.0, GL/WKST 4604 6.0.

*Cours incompatible :* GL/WMST 4200F 6.0.

**AS/WMST 4505 6.0 Family Issues: Feminist Perspectives.** This course explores feminist attempts to understand families within an international context. It reviews theoretical debates around key feminist issues including the history of changing family forms, paid and unpaid labour, sexuality, violence and cross-cultural understandings of family.

*Cross-listed to:* AK/GL/WMST 4505 6.0.

*Degree credit exclusions:* AK/SOCI 4350 3.0, AK/SOCI 4290 3.0, AK/SOCI 4060 3.0, AK/SOSC 4170 6.0, AS/SOCI 3660 6.0, AK/SOCI 2520A 6.0, AK/SOCI 3860 6.0, AS/SOCI 4090B 6.0.

**AS/WMST 4506 3.0 Colonialisms and Women's History.** This course draws on recent feminist studies to examine the history of the relations of race, gender and sexuality forged in selected contexts of European occupation and conquest and on the related reshaping of Western understandings of race, class and gender.

*Cross-listed to:* AK/GL/WMST 4506 3.0, GL/HIST 4606 3.0.

**AS/WMST 4507 3.0 Writing Women's History.** This course examines how feminist issues and theories have influenced the ways women's history has been written, the questions asked and the themes studied. Students are encouraged to develop the conceptual and methodological skills to undertake their own historical research.

*Cross-listed to:* AK/GL/WMST 4507 3.0, GL/SOSC 4670 3.0, GL/HIST 4670 3.0

*Degree credit exclusion:* GL/WMST 4670E 3.0.

**AS/WMST 4550 6.0 Women, Culture and the Arts: The Canadian Experience.**

This course focuses on women's creative works, both literary and artistic and the social and cultural contexts of these creative productions. The course explores the connection between social reality, personal experience and women's creativity in the Canadian context.

*Cross-listed to:* AK/GL/WMST 4550 6.0, GL/HUMA 3940 6.0.

*Degree credit exclusions:* GL/WMST 3210E6.0, GL/WMST 3940E 6.0, GL/WMST 4610E 6.0.

**AS/WMST 4551 6.0 Women and Aesthetics: Modern European Contexts.** This course focuses on women's creative works, both literary and artistic, and the social and cultural contexts of their creative productions. Literary and artistic works by women from Germany, Italy, Spain, Scandinavian countries and Eastern Europe are examined.

*Cross-listed to:* AK/GL/WMST 4551 6.0, GL/HUMA 4651 6.0.

**AS/WMST 4800 3.0/4800 6.0 Special Topics in Women's Studies.** The School of Women's Studies will occasionally offer special topics courses. Specific course descriptions will be available annually in the School of Women's Studies supplemental calendar.

**AS/WMST 4801 3.0/4801 6.0 Directed Reading.** This course is designed to enable honours students to undertake a detailed independent study of their own choosing. The student will undertake intensive reading and writing in one or two selected areas.

**AS/WMST 4801 3.0/4801 6.0 Travaux individuels.** Les travaux individuels permettent d'approfondir un sujet de son choix sous la direction d'un membre du corps enseignant du Collège. Les propositions doivent être acceptées par la professeure désignée ainsi que la coordonnatrice du programme.

**AS/WMST 4802 3.0 Gender and International Relations.** This course explores theoretical and empirical issues raised by the consideration of gender in international relations (IR). We examine theoretical concerns raised by feminists and feminist IR scholars and issues including: gender and the environment, militarism, international political economy and human rights.

*Cross-listed to:* AK/GL/WMST 4802 3.0, AS/POLS 4245 3.0.

## Departmental and Divisional Courses in Women's Studies

For an up-to-date listing of courses in other departments and divisions that count for program credit, please refer to the School of Women's Studies annual Supplemental Calendar.